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| ccgcaacctc cgcctcccgg                          | gttcaagcaa | ttctcctg    |             |            | 98           |
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| acacgtagat tcgggcaagt                          | ccaccacttc | tggccatctg  | atctacaaat  | acaataacat | 180          |
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| caagtatgcc tgagtcttgg                          | ataaactgaa | agctgagcgt  | gaacgtggta  | tcaccattga | 300          |
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| aagaaagata cacaatctta                          | aaattatcaa | agtaaaacca  | gtgatctaaa  | agataatata | 2160         |
| tcatatccaa gtggtttcat                          | ttgaaaaatg | aagtttgttt  | acaaatactc  | aaaaatcaat | 2220         |

taatttaaat ttctataata aaacaaaaag gaacaaaatt acatgataat ttcattagat 2280 tcaggaaaag catttgatga aatgcaacac atatttatgc tttaaaaaaat aacttttagg 2340 aaataagaaa tgcaaaggaa ctttcttact ctgacaaaat ctatgtctaa aaagacttaa 2400 acaaatattc tacttaatgg taaaagactg aaagcaatta ccttgagata ctgaatgagt 2460 caaggataca atgtctaaat gtaagtgcaa tgagagatga aaaaaataag agcttaaaga 2520 taagtaaaaa atctttcatt cagaagttac acaatattga acatagaaat tcaaaaataa 2580 tetteataag taaaetatta gacatattag gtaaaattag tagagtaaat atataaacae 2640 tatatttctg catactagct aaaaaagaaa ataaatttta atggtactat taataatagt 2700 atcagaaaca caatatttat aaaaataaat tcaactaaat tatgtaagac ctctacacat 2760 aaaattacaa agcattgttg ggagaaattt taaaagcccg aaataaataa agggatatac 2820 catggtcatt gattagaagt ttcagtgtcg tagagatgtt agtccttcct agattgattc 2880 agttcaatcc taatcaaatt ttcagcatgt ttttgtgtta gaatgtagga aaattcaaca 2940 tattaattct taaatatata tgaaacttca aaggactaag aaaatcaaga caattttgtt 3000 tgtttgtttt gaggcagggt ctcactctgt cgccaaggct ggagtgcaat ggcgtggtca 3060 cggctgaccg taaccctgac ctcccatgct caggtgatcc ttttacctca gtctcccagg 3120 tggctgggac tacaggggca tgctactgtg cctgatttat ttttgtattt tttgtagaga 3180 cagggtttta ctatgttgga gaccacactg gtctccaact cttgggctca agcagtctgc 3240 ctgccttggt ctaccaaatt gccaagtgtg agccacagtg cccagcccca ggacaatttt 3300 gaagcaaaaa aagatttatt ataatgttac aacaattaag ataatatgat gtataaacac 3360 gataatcaat taatccagtg aaacagtact gagtcccaaa aggaatcaca tgtttgcagt 3420 tcactgaaag ctggcaaagc tgatactaca acccagtaaa taaggaacac tcttcccagg 3480 cacggtggct catgtctgta atcacagcac tttgggaggc caacgcaggt ggatcacctg 3540 aagtcaggtg tttgagacca gcctggccaa catggcgaaa tcctgtccct actaaaaata 3600 caaaaattag ctggccgtgg tggtgctgcc tgtaatccca gctactcagc cagctgaggc 3660 aggagaatca cttgaaccca gaaggcagag gttgcagtga gctgagatca tgccactgca 3720 ctccagcctg ggcgacagag tgagactcca cctcaaaaaa aaaaaaaaa actctttata 3780 ataagttgtg gtaggtcata tgagattggg tatttatata aaaatattta tctatcttaa 3840 ccccatgctt atactaccac aaaagtcaat agcagatgat cgcagacaca aatggaaggc 3900 taaaatacaa acacttctgg aaaataatat aagataatat tttatgatgt tgaggtaggc 3960 aaagatttct taaacagaac ataaaaagtg ctactcaaaa aggaaaagac tgatacatta 4020 catttaagtt tagaacatcc atttattaaa tgcactagaa gagaagaaaa attcaagtca 4080 tagaatgaga gaaggtattt ccaaaacata tatccaacaa ataactcata cctqqaatat 4140 attttttgaa aactgctact tgtcaataaa gcaaatacag acaaaccaat ataaaaataa 4200 gcaaaacatt tcaaaaaatg atatgcaaat agcagtaagt atatgacaag atactccact 4260 ttgacagtta tcaaggaaat gaaaattaaa accactatga agtacctcta tattctcacc 4320 agaataacta aaataaaagg gactgattta tcaaggattt ggaggaactg gcgctcccat 4380 aaactgctgg tgggtgtgct aattgacaga accaccttgg aaacaggtac cgtcaactaa 4440 agtcaatcac atatatagct tgcaattcag taattctagt tttagggatt tactcctqaa 4500 aaatagatgc atatgtgcag aatagatata taacagtgtt cctagcagca ccattcataa 4560 tagtcaaaac ttgcaaacaa ttcagagtat tcattggcag tagaatcgat aaataaattg 4620 tggtattggc cgggcatggt ggctcacact tgtaatctca gcactttggg taacctaggc 4680 gggcagatca cctaaggtca agagttcagg accagcccgg ccaacaccgt gaaactccgt 4740 ctctaccaaa aatacaaaaa attagcagag catggtggcg catgcctgta atcctagcta 4800 ctcaggaggc tgaagtagga gaatcacttg aacctggaag gtggaggttg cagtgagccg 4860 agatcatgcc actgcactcc agcctgggca acagactctg tctcaaaaaa aatgtggtat 4920 aatcatacaa tcatgtacta gaaagcaatg aaaatatatg aaatattgcc tcaagttttc 4980 cttgagtggc tgaatttgat ttaggttctt gtctcctcct atgtttatca ccctgtgtat 5040 gctaccataa tagaacctgt tagaatagac actttagtag tcactggtcc accagctata 5100 ttctaggata agctgcaaac aattttttt gtggtcaaga gctttatctt atatgacttt 5160 gtatttatag agtcaaactt agccagtgcc caatgaatta ttattgaata aatgagtaac 5220 cagataaatt tttaaaaaag aaatattgcc tcatgcacta acatgattaa ttttaattat 5280 aatattatgt tttacaaaca taagattgag caaagaagtc agaaaccaaa aagagcattg 5340 tattatttaa ttatattaag ttcaagaaac cggcaaaact aatctatgtg gatgaaagtc 5400 agtatggtag tttttttgga gcaatgattg ggaaagtgta taaggagtgc ttctgttgtg 5460 atggtcatag attatttcac gatctagata gttttaaata aacatgttca tattgtgaca 5520 attcactaag ctgatgattt attcagttta ccgtgtgcaa atatttttga atagatgagt 5580 aattaattta totattaaat agaatagata aatgaatcaa ttaatatgta aataaagaat 5640 tggctcagcc aaaaaagagc caattgtaaa tattatgata aaatcaagag atgagtgaat 5700 ttcaagaaag agtggacggt taacagtgcc tattgctgaa aagttaaaag gcagttttt 5760 taaggacact gtctgtgata atgaggagga tattgcctct ctctggatac gcatcagttt 5820 tgaggggttc cagatttagg atgagatggt ctcactctca cactactgat tgctggtcta 5880

| aagggggtga cagtgtttat   | gataaagagg  | tttattggta | ctattaaata | tttaaaattt  | 5940  |
|-------------------------|-------------|------------|------------|-------------|-------|
| ggatttgggg cagggggttt   | ctctattttt  | tataaaattt | ttaaatgaaa | ttaaccaata  | 6000  |
| aaattaaccc aatagttcat   |             |            |            |             | 6060  |
| aaacgtatct aggccaggtg   |             |            |            |             | 6120  |
| ggcagaagaa tcacccaaga   |             |            |            |             | 6180  |
|                         |             |            | agactgtgag | atactctage  |       |
| tacaaaaaaa aaaaaaaaaa   | aaaaaaalii  | aaacatta   |            |             | 6218  |
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| <210> 11747             |             |            |            |             |       |
| <211> 1747              |             |            |            |             |       |
| <212> 1703<br><212> DNA |             |            |            |             |       |
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| <213> Homo sapiens      |             |            |            |             |       |
| <400> 11747             |             |            |            |             |       |
|                         |             |            | <b>.</b>   |             | 60    |
| gctttttcgc aacgggtttg   |             |            |            |             | 60    |
| caaaatggga aaggaaaaga   |             |            |            |             | 120   |
| caagtccacc actactggcc   | acctgatcta  | taaatgcagt | agcatcgaca | aaagaaccat  | 180   |
| tgaaaaattt gagaaggaga   |             |            |            |             | 240   |
| cttggataaa ctgaaagctg   |             |            |            |             | 300 ' |
| atttgagacc agcaagtact   | atgtgactat  | cactgatgct | ccaggacaca | gagacttcat  | 360   |
| caaaaacatg attacaggga   |             |            |            |             | 420   |
| tgttggtgaa tttgaagctg   |             |            |            |             | 480   |
| ggcttacaca ctgggtgtga   |             |            |            |             | 540   |
| gccaccctac agccagaaga   | gatatgagga  | aattgttaag | gaagtcagca | cttacattaa  | 600   |
| gaaaattggc tacaaccccg   | acacagtagc  | atttgtgcca | atttctggtt | ggaatggtaa  | 660   |
| caacatgctg gagccaagtg   | ctaacatgcc  | ttggttcaag | ggatggaaag | tcacccgtaa  | 720   |
| ggatggcaat gccagtggaa   |             |            |            |             | 780   |
| tcgtccaact gacaagccct   |             |            |            |             | 840   |
| tggtagtgtt cctgttggcc   |             |            |            |             | 900   |
| ctttgctcca gtcaacgtta   |             |            |            |             | 960   |
| gggtgaagct cttcctgggg   |             |            |            |             | 1020  |
| tgttcgtcgt ggcaacgttg   |             |            |            |             | 1080  |
| cttcactgct caggtgatta   |             |            |            |             | 1140  |
| tgtattggat tgccacacgg   |             |            |            |             | 1200  |
| tgatcgccgt tctggtaaaa   |             |            |            |             | 1260  |
| tgccattgtt gatatggttc   | ctaacaaaca  | catatatact | gagagetest | coggregatec | 1320  |
| acctttgggt cgctttgctg   |             |            |            |             |       |
|                         |             |            |            |             | 1380  |
| agcagtggac aagaaggctg   | cogyagetyg  | taaggtcacc | aactetyeee | agaaagctca  | 1440  |
| gatggctaaa tgaatattat   | tttgaattacc | rgeeacccca | thente     | grggrggaag  | 1500  |
| aacggtctca gaactgtttg   |             |            |            |             | 1560  |
| aatgataaca atgcatcgta   |             |            |            |             | 1620  |
| tggttttctt ttttgcatgt   |             |            |            |             | 1680  |
| aatggaaaca acttgaccaa   |             | cagaattttg | agacccatta | aaaaagttta  | 1740  |
| atgagaaaaa aaaagaaaaa   | aggaa       |            |            |             | 1765  |
|                         | •           |            |            |             |       |
| -210- 11740             |             |            |            |             |       |
| <210> 11748             |             |            |            |             |       |
| <211> 2470              |             |            |            |             |       |
| <212> DNA               |             |            |            |             |       |
| <213> Homo sapiens      |             |            |            |             |       |
| 400 11740               |             |            |            |             |       |
| <400> 11748             |             |            |            |             |       |
| gagataccat ctcacgccag   |             |            |            |             | 60    |
| ttttttctca atgggtttgc   |             |            |            |             | 120   |
| agccagaacg agaaaggaaa   | agactcatat  | caacactgtg | atcatcggac | acgtagattc  | 180   |
| gggcaagtcc accactactg   |             |            |            |             | 240   |
| catcgaaaaa tttgagaagg   | aggctgctga  | gatgggaaag | tgctccttca | agtatgcctg  | 300   |
| ggtcttggat aaactgaaag   | ctgagcgtga  | acatggtatc | accattgata | tctctttgtg  | 360   |
| gaaatttgag accagcaagt   |             |            |            |             | 420   |
| catcaaaaac atgattacag   |             |            |            |             | 480   |
| tggttttggt gaatttgaag   |             |            |            |             | 540   |
|                         |             |            |            |             |       |

| tctaacttac                | acactgggtg | tgaaacaact | aattgttggt | gttaacaaaa               | togattccac | 600          |
|---------------------------|------------|------------|------------|--------------------------|------------|--------------|
|                           |            |            |            | aaggaagtca               |            | 660          |
| taagaaaatt                | ggccacaaca | ccgacacagt | agcatttgtg | ccagtttctg               | gttggaatgg | 720          |
| tgacaacacg                | ctggagccaa | gtgctaacat | accttaattc | aagggatgga               | aagtcacccg | 780          |
| taaqqatqqc                | aatgccagtg | gaaccacgct | gcttgaggct | cttgactgca               | tcctaccacc | 840          |
|                           |            |            |            | gatgtctaca               |            | 900          |
|                           |            |            |            | ctcaaacctg               |            | 960          |
| cacctttgct                | ccagtcaacg | ttgcaacaga | agtaaaatct | gttgaaatgc               | accatgaagc | 1020         |
| tttgagtgaa                | gttcttcctg | gggacaatgt | gggcttcaat | gtcaagaatg               | tgtctgtcaa | 1080         |
| ggatgttcgt                | cgtggcaacg | ttgctggtga | cagcaaaaag | gacccaccaa               | tggaagcagc | 1140         |
| tggcttcact                | gctcaggtga | ttatcctgaa | ccatccaggc | caaataagtg               | ctggctatgc | 1200         |
| ccctgtattg                | gattgccaca | cggctcacat | tgcatgcaag | tttgctgagc               | tgaaggaaaa | 1260         |
|                           |            |            |            | aaattcttga               |            | 1320         |
|                           |            |            |            | gttgagagct               |            | 1380         |
| tccacctttg                | ggtcgctttg | ctgttcatga | tatcagacag | acagttgcgg               | tgggtgtcat | 1440<br>1500 |
| caaagcagtg                | gacaagaagg | ctgctggagc | tggcaaggtc | accaagtctg               | cccagaaagc | 1560         |
|                           |            |            |            | ccactgttaa               |            | 1620         |
|                           |            |            |            | agtttagtag               |            | 1680         |
|                           |            |            |            | ggagaatgtt<br>tagtttttaa |            | 1740         |
|                           |            |            |            | tttgagaccc               |            | 1800         |
|                           |            |            |            | ggaaacaaca               |            | 1860         |
| aggatgtgga                | gaaataggaa | agettttaca | ttattaataa | gattgtaaat               | tagttcaacc | 1920         |
|                           |            |            |            | ccagaaatat               |            | 1980         |
|                           |            |            |            | tcattctact               |            | 2040         |
| atgcacacgt                | atgtttattg | cagcactgtt | cacaatagca | aagacttgga               | accaacccaa | 2100         |
|                           |            |            |            | atatacacca               |            | 2160         |
| tgcagacata                | aaaaaggatg | agttcatgtc | cttttcaggg | acctggatga               | agctggaaac | 2220         |
| catcattctc                | agcaaactaa | cacaggaaca | gaaaaccaaa | caccacatgt               | tctcactcat | 2280         |
| aagtgggagt                | tgaacaatga | gaacacttgg | acacagggag | gggaacatca               | cacactgggg | 2340         |
|                           |            |            |            | cagaaatacc               |            | 2400         |
| gacgggttga                | taggtgcagc | aaacctccgt | ggcacgtgta | tacctatgta               | acaaacctgc | 2460         |
| acattctgca                |            |            |            |                          |            | 2470         |
|                           |            |            |            |                          |            |              |
| .010. 1174                |            |            |            |                          |            |              |
| <210> 11749<br><211> 2276 | 9          |            |            |                          |            |              |
| <211> 22/6<br><212> DNA   |            |            |            |                          |            |              |
| <213> Homo                | saniens    |            |            |                          |            |              |
| (ZI) HOMO                 | Daprens    |            |            |                          |            |              |
| <400> 1174                | 9          |            |            |                          |            |              |
|                           |            |            |            | atggaaacta               |            | 60           |
|                           |            |            |            | caatggacac               |            | 120          |
| gcaagtccac                | ctctactggc | catctgatct | acaaatgtgg | tggcatcaac               | aaaagaagca | 180          |
| ttaagaaatt                | tgagaagaag | gctgctgaga | tgggaaaggg | ctccttcaag               | taagcctggg | 240          |
| tcttggataa                | actgaaagct | gagcgtgaat | gtggtatcac | cattgatacc               | tccttgtgga | 300          |
| aatttgagac                | cagcaagtac | tgaatgacta | tcattaatgc | ccctaaggaa               | tgagaccacc | 360          |
| acttctcctg                | ttgtccttcc | cagettetae | ccaaccttcc | cttttcccta               | gillalaaga | 420<br>480   |
|                           |            |            |            | aagtaagata               |            | 540          |
| cgactttggt                | gccaccacct | ggeeerggrg | guladaalaa | taataataat<br>tatgagaaag | cactotaaaa | 600          |
|                           |            |            |            | gttcctcatg               |            | 660          |
|                           |            |            |            | cccttaaaag               |            | 720          |
|                           |            |            |            | cgacgctccc               |            | 780          |
|                           |            |            |            | tctgtgactc               |            | 840          |
|                           |            |            |            | ggacatctca               |            | 900          |
|                           |            |            |            | ctggtatctc               |            | 960          |
| cagacctgag                | agcatgccct | tctggcttac | acattgggtg | tgaaataact               | aatcactggt | 1020         |
| gttaacaaaa                | tggattttat | tgagccaccc | tacaaccaga | agagatatga               | ggaaatcatt | 1080         |
| aaggaagtca                | gcactatatt | aagaaaattg | gctacaaccc | tgacacagta               | gcatttgtgc | 1140         |

aaggaagtca gcactatatt aagaaaattg gctacaaccc tgacacagta gcatttgtgc caatttctgg ttggaatagt gacaacatgc tggagccaag tgctaacatg ccttggttca



<210> 11750 <211> 1819 <212> DNA

<213> Homo sapiens

## <400> 11750

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10639

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| tctctttata | gcaatttgag               | accagcaagt | actatgtgac   | tatcattgat | gccccaggac | 420       |
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|            | catcaaaaac               |            |              |            |            | 480       |
|            | tggttttggt               |            |              |            |            | 540       |
|            | tctggcttac               |            |              |            |            | 600       |
|            | tgagccaccc               |            |              |            |            | 660       |
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|            | tgacaacacg               |            |              |            |            | 780       |
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|            | tattggtact               |            |              |            |            | 960       |
|            | cacctttgct               |            |              |            |            | 1020      |
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|            |                          |            |              |            |            | 1320      |
|            | gactgatcgc               |            |              |            |            | 1380      |
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|            | gttaatgata               |            |              |            |            | 1740      |
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|            | ttttactgga               |            |              |            |            | 1800      |
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|            | agcaatccca               |            |              |            |            | 2040      |
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|            | tgcagacata               |            |              |            |            | 2220      |
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|            | aagtgggagt               |            |              |            |            | 2340      |
|            | cctgtcgggg               |            |              |            |            | 2400      |
| taatatagat | gacgggttga               | tgggtgcagc | aaacctccgt   | ggcacgtgta | tacctatgta | 2460      |
| acaaacctgc | acattctgca               |            |              |            |            | 2480      |
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|            | ccccgacaca               |            |              |            |            | 420       |
|            | aagtgctaac               |            |              |            |            | 480       |
| acaataccaa | tggaaccatg               | ctacttaaga | ctctqqactq   | catcctacca | ccaactcgtc | 540       |

| gagettetea<br>tgeggtgggt<br>ctetgeecag<br>cttaatcagt<br>agtagtaaaa<br>atgttttgtg<br>ttaaaatcag | gactatccac<br>gtcatcaaag<br>aaagctcaga<br>ggtggaagaa<br>gactggttaa<br>gaccactttg<br>tacttttaa | ctttgggtcg<br>cagtggacaa<br>tggctaaatg<br>cggtctcaga<br>tgataacaat<br>gttttctttt<br>tggaaacaac | tatggttcct<br>ctttgctgtt<br>gaaggctgct<br>aatattatcc<br>actgtttgtt<br>gcatcgtaaa<br>ttgcatgtgg<br>ttgaccaaaa<br>aagaaaaaag | cgtgatatga<br>ggagctggca<br>ctaatacctg<br>tcaattggcc<br>accttcagaa<br>cagttttaag<br>atttgtcaca | gacacacagt<br>aggtcaccaa<br>ccaccccact<br>atttaagttt<br>ggaaaggaga<br>ttattagttt | 1080<br>1140<br>1200<br>1260<br>1320<br>1380<br>1440<br>1500<br>1543 |
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| tgctcgtggc<br>attggttttt   | cagtgactac<br>tgttttgttt  | ccctaacgca<br>tgagacaagg   | agcagaaatg<br>caataatatg<br>tctcactcgg   | gctccgatgg<br>atgcccaggc   | gctcaaaggt<br>tggagtgcaa   | 300<br>360<br>420<br>480   |
| agcctcccaa<br>ttcagtagac   | gtagctggga<br>agggtttcac  | ttagcaggca<br>catgttggcc   | cttcccgggc<br>tgcgccacca<br>aggctggtct<br>gtattatagg   | cgcccggcta<br>cgaactcctg   | attttgtatt<br>gcctcaaatt   | 540<br>600<br>660  |
| cactatcgca<br>tcaaggattc   | acattcagaa<br>atgtaatttt  | cacccagtct<br>gtcattcctt   | gatctccctt<br>gtgttgcaca<br>gcgtgatatt<br>atcacagggg   | atatgttact<br>ttaaaaaaca   | taggtataaa<br>ttctgtgtaa   | 720<br>780<br>840<br>900   |
| gtggcccggg<br>tggatcactt<br>cttctaaaaa   | caccgtggct<br>gaggtcagca<br>tacaaaaatt  | cacgcctgct<br>gttcgagacc<br>tgtggggcgc   | aatcccagca<br>agcctggcca<br>gcttgtagtc   | ctttgggaga<br>acatggtgaa<br>ccagctactt   | ccgagccggg<br>acccccgtct<br>gggaggctga   | 960<br>1020<br>1080  |
| tgcactccag<br>gacagaaaat   | cctgggcaac<br>acaagtggac  | agagtagaac<br>tgtgaaaact   | agagettgea<br>teegteteaa<br>gaaaggaeta<br>geetteaaet   | cagaacgaaa<br>gaaaaactac   | tacaaagaaa<br>actacaaaga   | 1140<br>1200<br>1260<br>1320   |
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| gaaaacgaca<br>ttcatagcaa   | gcacttattt<br>gtgttggggt  | aaatataata<br>taggaaactg   | taaaatgcag<br>ggcacttatt<br>ggtggataaa<br>tgaaagcatt   | taaataggag<br>cttgctgatg   | aagctgtgac<br>ctgtagatct   | 1620<br>1680<br>1740<br>1800   |
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| gtcgctttca<br>ccagtcccga   | cggccatcga<br>cccttcgccc  | gccgaacctc<br>caagcccctc   | gagccaagag<br>tcgcaagtcc<br>ggggtccccg<br>aggagccaac   | gtgagccgtt<br>ggcctggtac   | aaggaggccc<br>tccttgccac   | 2040<br>2100<br>2160<br>2220   |
| gcagaggaag<br>gaggctgatt<br>gcaatggtag   | acgctctagg<br>gagaggcgaa<br>agggaagatt  | gatttgtccc<br>ggtacaccct<br>ctgcacgtcc   | ggactagcga<br>aatctcaata<br>cttccaggcg<br>attcatacaa   | gatggcaagg<br>caacctttgg<br>gcctccccgt   | ctgaggacgg<br>agctaagcca<br>caccacccc  | 2280<br>2340<br>2400<br>2460   |
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<210> 11755

<211> 1766

<212> DNA

<213> Homo sapiens

## <400> 11755

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| caaaatggga | aaggaaaaga | ctcatatcaa | cattgtcgtc | attggacacg          | tagattcggg | 120 |
| caactccacc | actactorco | atctgatcta | taaatgcagt | agcat.cgaca         | aaagaaccat | 180 |
| caagtccacc | accaccagec | ataataaaat | accessance | tettteaagt          | atggctgggt | 240 |
| tgaaaaattt | gagaaggaga | Cigcigagai | gggaaagggc | - be be be be be be | ~~~        | 300 |
| cttggataaa | ctgaaagctg | agcgtgaacg | tggtatcacc | attgatatet          | ccttgtggaa |     |
| atttgagacc | agcaagtact | atgtgactat | cactgatgct | ccaggacaca          | gagacttcat | 360 |

| caaaaacatq | attacaggga | catctcaggc | tgactgtgct | gtcccgattg | ttgctgctgg | 420  |
|------------|------------|------------|------------|------------|------------|------|
|            | tttgaagctg |            |            |            |            | 480  |
|            | ctgggtgtga |            |            |            |            | 540  |
|            | agccagaaga |            |            |            |            | 600  |
|            | tacaaccccg |            |            |            |            | 660  |
|            | gagccaagtg |            |            |            |            | 720  |
|            | gccagtggaa |            |            |            |            | 780  |
| tcgtccaact | gacaagccct | tgcgcctgcc | tctccaggat | gtctacaaaa | ttggtggtat | 840  |
| tggtagtgtt | cctgttggcc | gagtggagac | tggtattctc | aaacccggta | tggtggtcac | 900  |
| ctttgctcca | gtcaacgtta | caacagaagt | aaaatctgtc | gaaatgcacc | atgaagcttt | 960  |
| gggtgaagct | cttcctgggg | acagtgtggg | cttccatgtc | aagaatgtgt | ctgtcaagga | 1020 |
|            | ggcaacgttg |            |            |            |            | 1080 |
|            | caggtgatta |            |            |            |            | 1140 |
|            | tgccacacgg |            |            |            |            | 1200 |
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<213> Homo sapiens

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| aaaattgtta  | aggaagtcag | cacttacatt | aagaaaattg | gctacaaccc | tgacacagta | 180  |
| gcatttgtgc  | caatttctgg | ttggaatggt | gacaacatgc | tggagccaag | tgctaacatg | 240  |
| ccttggaacc  | atgctgcttg | aggctctgga | ctgcatccta | ccaccaactc | gtccaactga | 300  |
| caagcccttg  | cacctgcctc | tccaggatgt | ctacaaaatt | ggtggtattg | gtagtgttcc | 360  |
| tgttggccga  | gtggagactg | gtgttctcaa | acctggtatg | gtggtcacct | ttgctccagt | 420  |
| caacgttaca  | acagaagtaa | aatctgtcga | aatgcaccat | gaagctttga | gtgaagctct | 480  |
|             |            | tcaatgtcaa |            |            |            | 540  |
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| ggtgattatc  | ctgaaccatc | caggccaaat | aagcactggc | tatgcccctg | tattggattg | 660  |
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| gaagactgct  | ggagctggca | aggtcaccaa | gtctgcccag | aaagctcaga | aggctaaatg | 960  |
| aatattatcc  | ctaatacctg | ccaccccact | cttaatcagt | gatggaagaa | cagtctcaga | 1020 |
| actctgtttc  | aattggccat | ttaagtttag | tagtaaaaga | ctggttaatg | ataacaatgc | 1080 |
| atcgtaaaac  | cttcagaagg | aaaggagaat | gttctgtgga | ccactttggt | tttcttttt  | 1140 |
|             |            | actagctttt |            |            |            | 1200 |
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<213> Homo sapiens

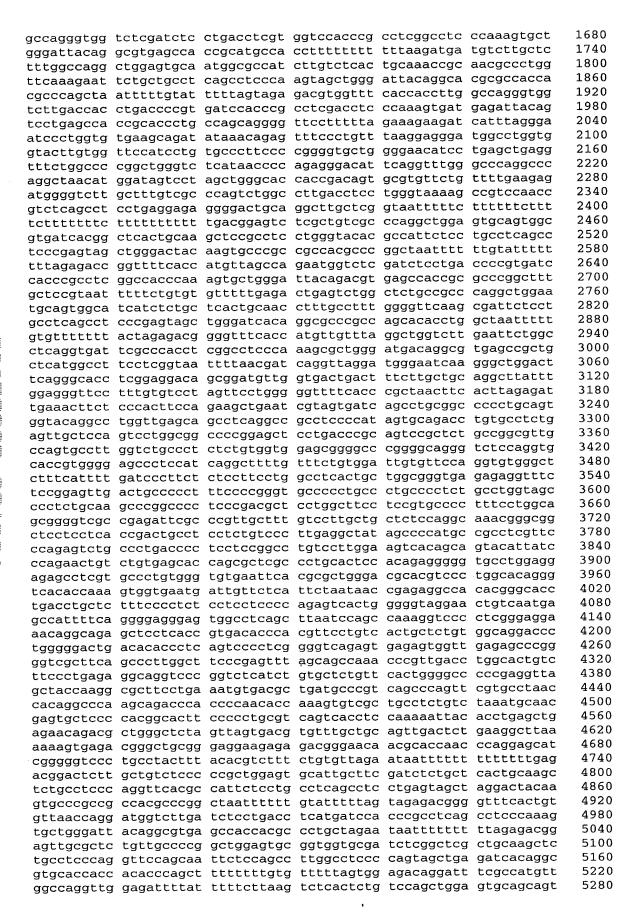
| <pre>&lt;400&gt; 11757 tttccttatt tcataagagt aaggtcataa actagcttta taatcagctg agcaaatctc cccattacta atggagttaa gatgacagca tttctgttag tttgttccat gaaaatctta tagatgagcc caaaatctcc aaagttcttt atgcactgat ggttatccct aagctttgtt tctttgacaa atatatatgg agtgcccaac atgtgtcctg ggaagctaaa acacatttac tgacattaat atcctcttga gaaagttcta gaaatgttaa gcaacaatta ctttgcattg tgctctcttt atataactac ttcattctct caatacccaa atttcttct aaatggaggg aggtagagta aaattttatc ctaagatttg agtatatgtg tatatacaca aatatatttg tgtatgtgtt attcaaaagg actcagttca cactttgaaa ccaaaccact gcaataggta aaaagtaact ttaattctat tctgaaaaga acctcttctt taaacatagg cataatttaa tc</pre> | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>540 |
|--|--|
| <210> 11758<br><211> 305<br><212> DNA<br><213> Homo sapiens  |  |
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| <210> 11759<br><211> 292<br><212> DNA<br><213> Homo sapiens  |  |
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| <210> 11761<br><211> 86<br><212> DNA<br><213> Homo sapiens   |  |
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| tgcagctaac<br>tagcacccat<br>gcagatagtc                | sapiens  ttcctccct caatggaaat cagacggcca agggcctgtg | caggatggct<br>tacttaaaac<br>aattattatt<br>aaatgtggca<br>taacctcctt | ccttcaccaa<br>tactggacca<br>aagaaataat | acctttcact<br>ggccttttca<br>cccctgcact | taggcattga<br>aaactatcaa<br>tcaggccata | 60<br>120<br>180<br>240<br>300<br>305 |
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| agaa  |   |  |  |  |  | 184                                   |
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|   |   | ggggccgccg   |  |  |  | 180                                   |
|   |   | gttgggagac   |  |  |  | 240<br>300                            |
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|   |   |  |  |  |  |                                       |



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<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

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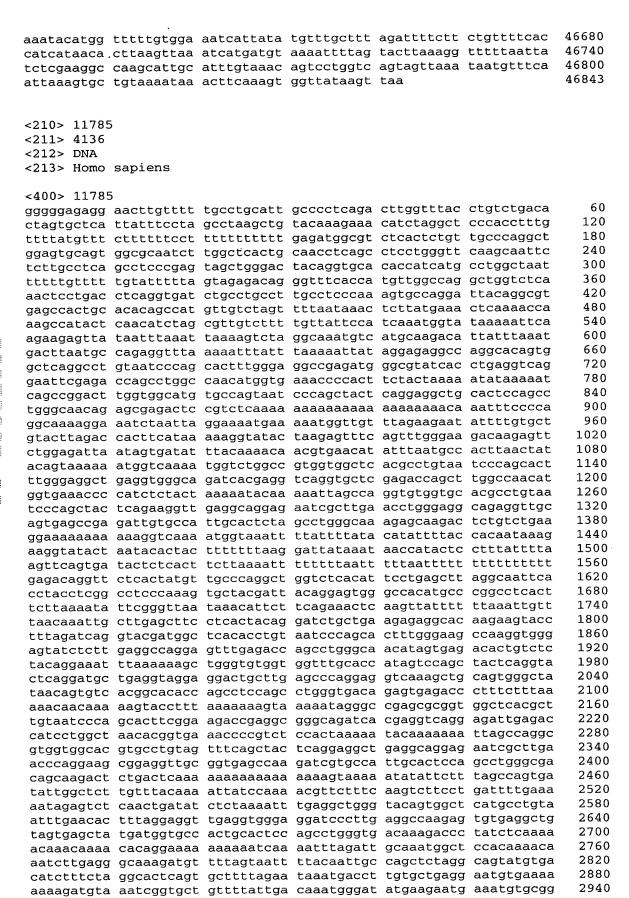
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| <210> 11789<br><211> 9361<br><212> DNA<br><213> Homo sapiens   |   |  |  |  |   |
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| aagaacatga ggcagtac  |   |  |  |  | 120<br>180  |
| ccagggctgt ggtctcca  | ita agcccacggg  | gtcctgccc  | tgtcagccaa   | geaatettee   | 240   |
| ctccactccc aaagctcc  | cg cccaccccac   | actccacacc   | tctagaggtg   | ggeeeteete   | 300   |
| cccaccacac tgcttgct  | ce acateageeg   | agcacccgca   | ggtccctggt   | gccaccacag   | 360   |
| cgagatcacc ctctctgg  | ge teceaggiga   | agggteacac   | grayacacca   | geeteeagea   | 420   |
| acagtgctga cgtgaagg<br>gggaggaggg ctgggctt   | ta ttaaaaaaa  | acagaaacyg   | ctcaataaac   | caaacaccto   | 480   |
| gctgcccaaa gctggcgg  | rag gaggagtat   | ggaggagagg   | gcaccctgag   | aggetatate   | 540   |
| ggggaggccg caggggct  | at tectataace   | ccatattccc   | atcactgcat   | atcctgaggt   | 600   |
| gtcctgaggt ccagagtg  | act coetteette  | tagaactccc   | cctaccaaac   | accetecttg   | 660   |
| tggtgactgt gggtctgg  | at ggacccttgc   | tccccatcag   | tcctgtacag   | ctcccagcag   | 720   |
| acgtgagtgc cagccctg  | gc tcccgtcatc   | caagccagag   | agggggagaa   | gttctcccac   | 780   |
| tgttgtcccc ctggtgag  | gac cctgggccca  | ggcagggcag   | agccagcgtc   | caagggagga   | 840   |
| gaaacagtgg cttctgc   | ctg tgctctctgg  | gcccggggcc   | cggctgctcg   | agcgccttgg   | 900   |
| aagggagcct ccaggcca  | agc ctctctgtgg  | acctggatca   | ggccctttct   | ggtggtgttg   | 960   |
| agccccgctc cacccag   |   |  |  |  | 1020  |
| ctgtcccctc tggctgcc  | ctc tcatctctga  | atgagccaag   | atcctgaggt   | gaggccgcca   | 1080<br>1140  |
| gccctacccg cactgggt  | ca ggaaggagcc   | ttcgggatgt   | cactgctgtg   | cetgeeeaeg   | 1200  |
| tgcagcggcg tcccaggg  | gag gggaaccccg  | gragereerg   | catagggaatee   | actoccatta   | 1260  |
| cttgcggggg ccaggctt<br>gacagcatgg gcagttto   | ag tyacgytygc   | tttagggaga   | aggaetttc  | catggaaatg   | 1320  |
| tctgtagctc tggaagca  | acc actacctica  | . accadantan   | ccaaccccat   | ctcccctaac   | 1380  |
| tccgtccccc tgcagga   | tea tacteateta  | taccaaacaa   | tecetataca   | cggccttctc   | 1440  |
| ggtcctgccc tatgggg   | aag gcctgcggat  | caggtgagta   | ctcagcgctt   | gcctcgcatq   | 1500  |
| cggtgtccat ctaggcag  | gaa ggcaaggcct  | ggtctcggcc   | aggcccagga   | ggcatcagcg   | 1560  |
| ggcactgcgc ccccagg   | tgc ggctgcccc   | gggctcatgo   | gaggctcagc   | atgtcaacct   | 1620  |
| ccagcaaagc tcctcag   | gaa cccggggccg  | tttcgggtcc   | tcactctcca   | gaggagccgg   | 1680  |
| tttctgttca cgctgtc   | gat gtacaggtgg  | ctgggctgtc   | ccacctcctg   | tggacagagc   | 1740  |
| cacttggtgc tgtgacca  | atc caggcagtcg  | tatccgtgcg   | r taattcaggg   | aaggaggaaa   | 1800  |
| cagctatggg gtgggga   | tta tgtgtggccc  | tggcttaaaa   | acagtggtgg   | agaaacctga   | 1860  |

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| caccagcac cccgcacccc gtcccccgcg tccaagcccc cactcccgcc ccagccccag ccctgagccc gaagcccgcg ccgcgcgcca cacctgctgc caccacaccg cgcgcgagag agaaaggaag cagctagtca cccggcagag atatcggcgg gcaaggaggg gcctcggcga g  | 9240<br>9300<br>9360<br>9361  |
|---|---|
| <210> 11790<br><211> 683<br><212> DNA<br><213> Homo sapiens   |   |
| <pre>&lt;400&gt; 11790 cgcacttccg cttccggcaa ggaggttctc ggaccccagc ctgctggccc tggggcgcgg ggcgtcgtgg gggtcgttgt cgttgagggt cgttgccgtg tgtggcgtct tagcctggcc cctgggttgt gcccaccgga cgcagtcgac ccctctgagc gcctcgggag ccccgaatag cagctgggag aaggggcgag gactgagcct cgctgcccgc tgccggcgg gctagagata cgggcgtggcc ccccattgtg cgcctcccgc cctccggtcc cctcaccctg cggccacctg gggcgtgggg cggtgctcct gccgtgcac gtagccgctg cgagcggagg cctgctcacc tggtgcctgc tactcactcc cccgggccgg tgggcgaagg acacccgcag gaactcggca gaggagaaat tcagacggct cccgagggta ggaaaagacc ccggccacc gtggaatctg aaacacccga ccactctgcc atccatgtt tcaccagtca gacccccagg gcagggcagg</pre> | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>540<br>600<br>660<br>683 |
| <210> 11791<br><211> 131<br><212> DNA<br><213> Homo sapiens   |   |
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| <210> 11793<br><211> 143<br><212> DNA<br><213> Homo sapiens   |   |
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| <211> 1405<br><212> DNA<br><213> Homo sapiens   |  |  |   |  |  |
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| tttttggcag tggtgaggat gagattgatg gagttgctgc tttagcttat tggaggtgtg gatcatttta ttttttgtgt ttgaccggtc aagtgactta gtgagaaggg ggaagtagta gaacaaggag ttccatctgt aactgtgaac agtcaattgt gataactcac tacctttaga ccagtcaata attatttaa agcctgggat tatacaatat ttgtttaact attgtaactt aaattcatct caattctttg tcctaagcag ctctcagttt catttttt gtttgctgta gaagaaaata ttaagccagg ctgggcacgg ctggctcacg cctgtaatcc cagcactttg ggaggccgag gcaggcggat cacgaggtca agagattgag accatcctgg ccaacatggt gaaaaccggt ctctactaaa atacaaaaat tagttgggtg tggtggcgca cggaggttgca gtgagccgag atggcgcac tgcactccag cctggcaca gagtgagcc gagggttgca gtgagccgag atggcgcac tgcactccag cctggcaca gagtgagac cctggcaca cctggcaca aaaaaaaaa aaggaaa | 840<br>900<br>960<br>1020<br>1080<br>1140<br>1200<br>1260<br>1320<br>1380<br>1406 |
|--|---|
| <210> 11797<br><211> 193<br><212> DNA<br><213> Homo sapiens  |   |
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| <210> 11798<br><211> 153<br><212> DNA<br><213> Homo sapiens  |   |
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| <210> 11801<br><211> 268<br><212> DNA  |   |

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| tgatttcttc | tccttggaga | cccacactgc | cctcagcccc | ctgcagttta | gaggtcggag | 2700 |
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|            |            |            | tgggacgggc |            |            | 2760 |
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<213> Homo sapiens

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|            | cccacactca |            |            |            |            | 5520 |
|            | gcttggcctt |            |            |            |            | 5580 |
| acatctcaag | acaccccacc | tccctctgtg | ccaccctcca | cccacctgta | cagtgacgag | 5640 |
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<212> DNA

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|            | gagacagcat |            |            |            |            | 180  |
| gtgagaatga | cactaagggt | acctacgaga | acattccttc | ccatgtaaac | taatagtgta | 240  |
| ataaatactc | atatagttac | tagttttagt | tgccaaacct | agtttgtaaa | tggtaaattt | 300  |
| gagaccagaa | ctatattctt | atgactatca | gaccactgat | agtttcacta | agtcaactcc | 360  |
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| tttctcataa | gctttaaatc | aaattgatga | gagaactttc | cctgtttttc | tgtcataaac | 480  |
| tacattatct | gataaagttc | atactatttt | tacatacata | gattatttaa | catactttgc | 540  |
|            | gcagagaact |            |            |            |            | 600  |
|            | tatttatttg |            |            |            |            | 660  |
|            | cacttttaca |            |            |            |            | 720  |
|            | aaaatcttgg |            |            |            |            | 780  |
|            | gaaagaggtg |            |            |            |            | 840  |
|            | tgaaaatact |            |            |            |            | 900  |
| atctcgtaaa | tttttaaaag | gaaaggacca | aaataataca | gatactttag | catagatttg | 960  |
|            | ataaaaatat |            |            |            |            | 1020 |
|            | aaatttgaaa |            |            |            |            | 1080 |
|            | cacattcaca |            |            |            |            | 1140 |
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|            | aagatgaaat |            |            |            |            | 1260 |
|            | gaaaaaaaat |            |            |            |            | 1320 |
|            | atgggttcaa |            |            |            |            | 1380 |
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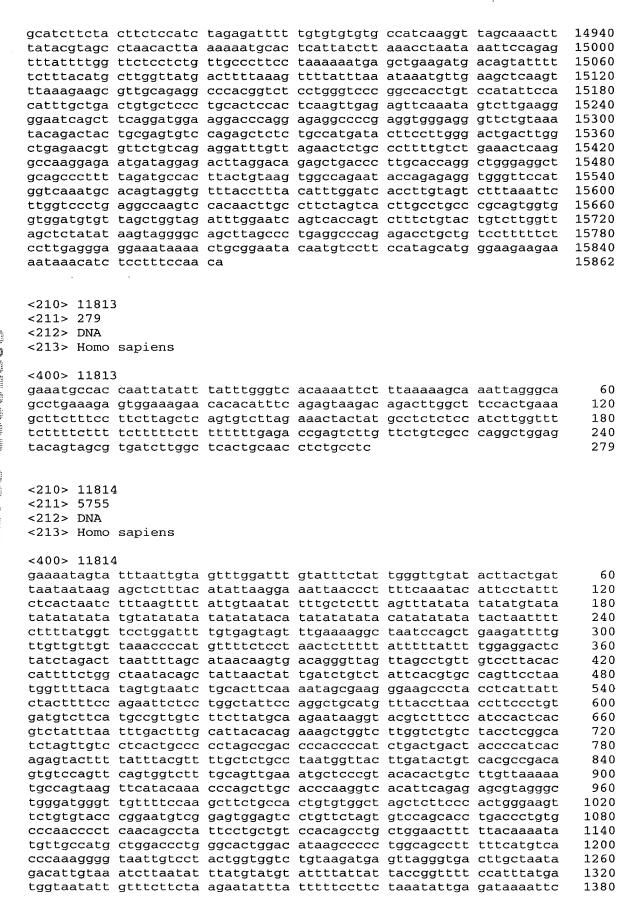
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|                         | aaaaaaaaa                |            |              |                | acagageaag | 3761         |
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|                         | cgagtataac               |            |              |                |            | 480          |
|                         | tctaattcct               |            |              |                |            | 540          |
|                         | ggaaagcgtc               |            |              |                |            | 600          |
| cacttgtctg              | tttagtttgt               | tgaaatctta | agtggcatcc   | tggtctggga     | aggagtgctg | 660          |
|                         | ccctccgctg               |            |              |                |            | 720          |
| tgtcttctaa              | agggccgcca               | catgccagga | gctcaggtgt   | gagcccggct     | ctggctctta | 780          |
|                         | tcactcatag               |            |              |                |            | 840          |
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|                         | tcctagagtg               |            |              |                |            | 960          |
|                         | ccatcatctg               |            |              |                |            | 1020         |
|                         | aggcaaatgc               |            |              |                |            | 1080         |
| tgtgtgaaaa              | ctgttcaaag               | ccatacctgc | acatgtttga   | acttcaaacc     | ctgtgggtga | 1140         |
| ttcagtggca              | tctttctcta               | acccccagcc | tcccttccca   | cagaggccac     | cgtcatggcc | 1200         |
|                         | gtttctttcc               |            |              |                |            | 1260         |
|                         | cctgtcttgc               |            |              |                |            | 1320         |
|                         | tattcatgtc               |            |              |                |            | 1380         |
|                         | tccctttttg               |            |              |                |            | 1440         |
|                         | gcatatctgt               |            |              |                |            | 1500         |
|                         | tcctcaggag<br>gcttccacct |            |              |                | adatatgatg | 1560<br>1608 |
| gasassocca              | geeceeacee               | caaggaggee | ggtcccattg   | acacccc        |            | 1000         |
| .010. 1101              | •                        |            |              |                |            |              |
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| \213> HOMO              | sapiens                  |            |              |                |            |              |
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|                         | gatgtataat               |            |              |                |            | 180          |
|                         | cttttttaaa               |            |              |                |            | 240          |
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| ttcctcccca              | ttttgttggt               | caaatccgat | ctgccatatc   | ctgtgtaatg     | acaagtgagt | 360          |
| tgcattctca              | ccgtcactcc               | tggggtctct | ccgcttcccc   | tgagctggct     | cagcagtctg | 420          |
| ctccatgtgt              | tttgatgcag               | ggtgacccat | tggtattccc   | gacactaacg     | ccccgtctg  | 480          |
| tggactgctt              | gctgcttggg               | cttcactgtg | tctggtgttg   | acagtgcaga     | cctaaaggtg | 540          |
| tgcacacatg              | tgcacacaca               | ctccgctgtc | ttcttgtttg   | cactggactt     | aaatatctat | 600          |
|                         | ttcaactgct               |            |              |                |            | 660          |
|                         | gtttatttta               |            |              |                |            | 720          |
| aattatasat              | aataatccac               | ccatatacac | cagagagaga   | Lygggcattc     | cagggtgaga | 780          |
| acagtcaca               | gccacctggg<br>atatctttgg | ccatgtgggC | ttotataccage | accuracy grant | tttaattta  | 840<br>900   |
|                         | acaccccgg                | geadacecee | cccatacct    | caayycayct     | LLLYGLLEGE | 900          |

| aaccccacty gccagagga agggccagtc acttggctct ctcactgccc tgcgcccag atggttctag ggctgctgtt ttcccttggc cctgccaaca ccactgttt tacttctgct cattggctga gtgcagtggt tcctggaagc cagtggcacg tttccccgcg tagctcgctt atcccacagc acacacccaa gggttctgtt gctaacacgc tgaattaatt ctttgctcat gcttcatcgg caggttggga cttagatggc cgtgaatgtt tcctctctgc tgctgcagta agtaagtgcc cgcaccatag tgtgtttgga ggctgaagtt tcctctctgc tgctgcagta gatggacgtg tgaggagga tgatgggct tgagcaagt gagggagggg gcaaaggcag ttggcccaac acattccca cccctttgag aggtctgagg cctgcagacc tggctcggag cccacctggt agtcctcaga ctgtgtgtgt gtgtgtgtt gtgtgtgt | 960<br>1020<br>1080<br>1140<br>1200<br>1260<br>1320<br>1380<br>1440<br>1500   |
|--|---|
| <210> 11819<br><211> 1608<br><212> DNA<br><213> Homo sapiens   |   |
| ctgtggatgt actaaaatgt atcctattat tctctgcct aaaatggaat catacaaggt gtactgttat ttttatggct ctataacatg tcatattgta cgtgttggta tgtttagaggt gtcggggga tctcttttgc accctctgg gtgcagagct gtggagggggggggg  | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>540<br>600<br>660<br>720<br>780<br>840<br>900<br>960<br>1020<br>1080<br>1140<br>1200<br>1320<br>1380<br>1440<br>1500<br>1560<br>1608 |
| <210> 11820<br><211> 2223<br><212> DNA<br><213> Homo sapiens   | 2300  |
| <pre>&lt;400&gt; 11820 ccgggaggtg gaggttacag tgagccaaga tcgcgccact acactccagc ctgggtgaca gagtgagact ccgtctcaaa aaaaccaaaa gactttatct tatttcctat atgtttgtgg tttcagtcct gatgtataat ttgaccctag ttagaatggt tatctgagga agtggcctgt acgatttctg ctttttaaa tgtgtggctc cctttcttca ttgattaacg tatgattatt tttataaatg ttccatggca gtgggaaggg attctctgtc acattccaca tctggatcag ttcctcccca ttttgttggt caaatccgat ctgccatatc ctgtgtaatg acaagtgagt tgcattctca ccgtcactcc tggggtctct ccgcttcccc tgagctggct cagcagtctg</pre>  | 60<br>120<br>180<br>240<br>300<br>360<br>420  |

| ctccatgtgt | tttgatgcag | ggtgacccat | tggtattccc | gacactaacg | ccccgtctg  | 480  |
|------------|------------|------------|------------|------------|------------|------|
| tggactgctt | gctgcttggg | cttcactgtg | tctggtgttg | acagtgcaga | cctaaaggtg | 540  |
| tgcacacatg | tgcacacaca | ctccgctgtc | ttcttgtttg | cactggactt | aaatatctat | 600  |
| gagggttatt | ttcaactgct | gaatttggaa | tgatttttat | atcttttctg | ctttctgccc | 660  |
| atgtacatgt | gtttatttta | cactgttgtg | attggtagtt | actatgtggg | gacacaatta | 720  |
| cttgggctga | aataatccac | ctgttgtggt | tggggtcctc | tggggcattc | cagggtgaga | 780  |
| ggttgtcact | gccacctggg | ccatgtgggc | cggcaccagc | attttgtggt | tacgaattct | 840  |
| acagtcacaa | atatctttgg | gcaaatcccc | ttctatacct | caaggcagct | tttggtttgc | 900  |
| aaccccactg | gccagaggga | agggccagtc | acttggctct | ctcactgccc | tgcgccccag | 960  |
| atggttctag | ggctgctgtt | ttcccttggc | cctgccaaca | ccactgtttt | tacttctgct | 1020 |
| cattggctga | gtgcagtggt | tcctggaagc | cagtggcacg | tttccccgcg | tagctcgctt | 1080 |
| atcccacagc | acacacccaa | gggttctgtt | gctaacacgc | tgaattaatt | ctttgctcat | 1140 |
| cttacagagt | gtgttttgac | tgcccccatt | tctgaggcct | tgtaaggcca | gagctttgtt | 1200 |
| gcttcatcgg | caggttggga | cttagatggc | cgtgaatgtt | tcctctctgc | tgctgcagta | 1260 |
| agtaagtgcc | cgcaccatag | tgtgtttgga | ggctgaagtt | gaagcgaggc | tgtgagggga | 1320 |
| gatggacgtg | tgaggaggga | tgatggggct | tgagcaaagt | gggggagggg | gcaaaggcag | 1380 |
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| cccacctggt | agtcctcaga | ctgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | gtgtgtgtgt | 1500 |
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| cagtcctctc | tgagcctctg | cttcccatct | ggaacctgct | ggggcagggc | ttctgagctc | 1680 |
| cttagcacta | gcaggagggg | ctccaggggc | cctccctcca | tggcagccag | gacaggactc | 1740 |
| tcaaatgagg | acagcagagc | tcgtgggggg | ctcccacgga | cccgccgtgg | gcccagggga | 1800 |
| ggcagagcct | gagccaacag | cagtggtgct | gtggaccgtg | gatcctgagg | gtggcctggg | 1860 |
| gcaagtaccg | gctgagggtc | caggtgggct | ttgtgtacct | ttgggtcctg | gggccctggt | 1920 |
| gacttggact | ccaggttaga | gtcaagtgac | aggagaaagg | ctggtggggc | cctgtgcttc | 1980 |
| cgacttcatt | tcgagtgatg | gcagttccca | ggaaggaatc | cacagctgac | ggtggctgac | 2040 |
| agatcagaga | atggaaggcg | aggcaggcgg | gcgtctgcgt | gacctcaggt | gcttggggcc | 2100 |
| cagcagaccc | agagaaccat | ttccactagg | ccagggtgcc | ggaagtgtcc | acaggtctta | 2160 |
| gattcctgtt | cagatgaaaa | gatttgtgcc | tttaatgata | aaagtgatct | gcatagagtc | 2220 |
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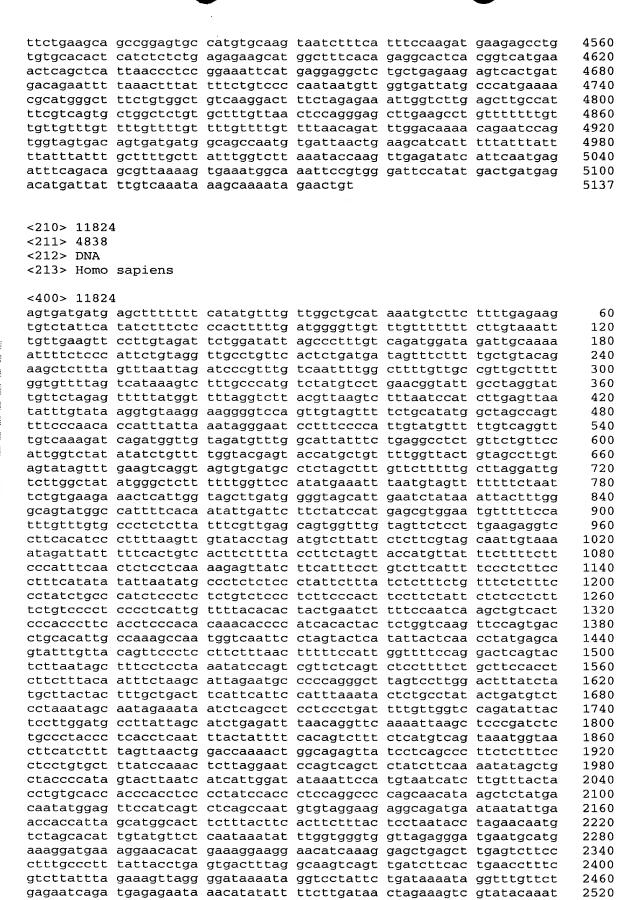
<213> Homo sapiens

## <400> 11821

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| cgcatatctg to                 |           |            |              |            |            | 1380<br>1440 |
|-------------------------------|-----------|------------|--------------|------------|------------|--------------|
| aggctatacc g                  | _         |            |              | _          |            | 1500         |
| gagaaaagtt t                  |           |            |              |            |            | 1560         |
| gacaccccca g                  |           |            |              |            |            | 1608         |
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| caaagggcaa g                  |           |            |              |            |            | 120          |
| gtggggactg g                  |           |            |              |            | _          | 180          |
| ttggggcttg c                  |           |            |              |            |            | 240          |
| tgtcttctct a                  |           |            |              |            |            | 300          |
| gtgttgggca t                  |           |            |              |            |            | 360<br>420   |
| ctgtgccttt g<br>tgttgttaga a  |           |            |              |            |            | 480          |
| gccctgagtt a                  |           |            |              |            |            | 540          |
| gctcttagcc to                 |           |            |              |            |            | 600          |
| gtttttcagc a                  |           |            |              |            |            | 660          |
| atctccagcc ta                 | -         |            |              | _          |            | 720          |
| gtaggcacaa a                  |           |            |              |            |            | 780          |
| tcaacaaggtit                  |           |            |              |            |            | 840          |
| taatggaaca a                  | tgaagcagt | gtcgccacta | aagagtaatc   | tgcaaccaca | cagaagctgg | 900          |
| aatcccaagt a                  | cctgtcatt | atattctcct | acacatgtgc   | agagtttgat | aaaaagagag | 960          |
| agccagtttt a                  |           |            |              |            |            | 1020         |
| ccaaaataag c                  |           |            |              |            |            | 1080         |
| cattttgtgg c                  |           |            |              |            |            | 1140         |
| tgcgtcttta a                  |           |            |              |            |            | 1200         |
| tctctaggtg to                 |           |            |              |            |            | 1260         |
| agcaaatcct t                  |           |            |              |            |            | 1320         |
| gaattccctc to atagacattg as   |           | _          | _            |            |            | 1380<br>1440 |
| caaacttctc te                 |           | -          |              |            | _          | 1500         |
| tattagaaaa g                  |           |            | acadadacac   | caaagccigi | ggcgaaaaac | 1522         |
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| taaaaattag a                  | ggaaatgac | tcaactctca | tgaaaaatct   | tttgcaattc | tgatttctca | 120          |
| gttattagat ga                 |           |            |              |            |            | 180          |
| ttctattcct ca                 |           |            |              |            |            | 240          |
| tgagcttgaa c                  |           |            |              |            |            | 300          |
| ttgtcagttt a                  |           |            |              |            |            | 360          |
| atttttatat to                 |           |            |              | -          | -          | 420          |
| caaaattctc t                  |           |            |              |            |            | 480          |
| acccataccc ac                 |           |            |              |            |            | 540          |
| atatgttaat aa<br>agaatgaatg c |           |            |              |            |            | 600<br>660   |
| aaaagcaaag g                  |           |            |              |            |            | 720          |
| tgttttggca g                  |           |            |              |            |            | 780          |
| cttcagttgt g                  |           |            |              |            |            | 840          |
|                               | _         |            | <del>-</del> |            | = -        |              |

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| gttagtcatg | ataaggaggg | agaaaaggaa | gggaaagact | cgagggggct | aatggttgcc | 2580 |
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| tgtcttccac | aatggttgaa | ctagtttaca | gtcccaccaa | cagtgtaaag | tgttcctatt | 3300 |
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|            |            | tttggctgca |            |            |            | 3480 |
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| tcattgtaga | ttctggatat | tagccctttg | tcagatgagt | aggttgcgaa | aattttctcc | 3600 |
| cattctgtag | gttgcctgtt | cactctgatg | gtagtttctt | ttgctgtgca | gaagttcttt | 3660 |
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| gtttttatgg | ttttaggtct | aacatttaag | tctttaatcc | atcttgaatt | aatttttgta | 3840 |
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|            |            | taggtatttt |            |            |            | 4440 |
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| cattgatttt | gtatcctgag | actttgctga | agttgcttat | cagcttaagg | agattttggg | 4560 |
|            |            | agatatacaa |            |            |            | 4620 |
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|            |            | aattggagtg |            |            |            | 4740 |
|            |            | agtttttgtc |            | gatattggct | gtggttttgt | 4800 |
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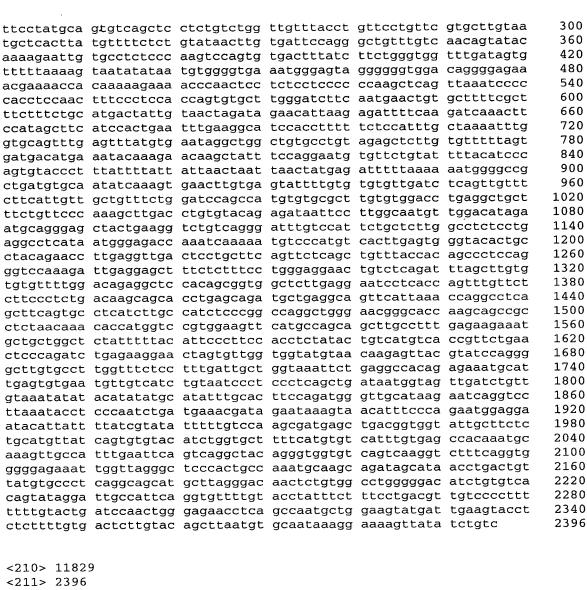
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<213> Homo sapiens

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| cacttcactt cttta aaatatttgg tggg ggaaggaaca tcaa ctttaggcaa gtcaa aaaataggtc ctat tatattttct tgata | agaggc agatgaataa actcct aatacctaaa tggtta gagggatgaa aggagc tgagcttgag gtggat cttcactgaa tctgat aaaataggttaactag aaagtcgtatctgag ggggctaatg | acaatgccta<br>tgcatgaaag<br>tcttcccttt<br>cctttcgtct<br>tgttctgaga<br>acaaatgtta | gcacattgta<br>gatgaaagga<br>gccctttatt<br>tatttagaaa<br>atcagatgag<br>gtcatgataa | tgttctcaat<br>acacatgaaa<br>acctgagtga<br>gttaggggat<br>agaataaaca | 900<br>960<br>1020<br>1080<br>1140<br>1200<br>1260<br>1308 |
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|  | tggttt tccaggactc  |  |  |  | 240  |
| ccagtcgttc tcag  | tctcct tttctgcttc  | cacctcttct   | ttacaatttc   | taagcattag   | 300  |
| aatgccccca gggc  | ttagtc cttggacttt  | atctatgctt   | actactttgc   | tgacttcatt   | 360  |
|  | actctg cctatactga  |  |  |  | 420  |
|  | ttttgt tggtccagat  |  |  |  | 480  |
|  | caaaat taagctcccg  |  |  |  | 540  |
|  | tctcat gtcagtaaat<br>tatcct cagcccttct   |  |  |  | 600<br>660   |
|  | ctctat cttcaaaata  |  |  |  | 720  |
|  | catgta atcatcttgt  |  |  |  | 780  |
|  | cccagc aacataagct  |  |  |  | 840  |
|  | agaggc agatgaataa  |  |  |  | 900  |
|  | actcct aatacctaga  |  |  |  | 960  |
|  | tggtta gagggatgaa  |  |  |  | 1020   |
|  | aggage tgagettgag  |  |  |  | 1080   |
|  | gttgat cttcactgaa<br>tctgat aaaataggtt   |  |  |  | 1140<br>1200   |
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|  | cagaaa ttttaagcca  |  |  |  | 180  |
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|-------------------------|------------|------------|------------|------------|------------|------|
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| gtaaatatat              | acatatatgc | atatttgcac | ttccagatgg | gttgcataag | aatcaggtcc | 1860 |
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|                         |            | gtcaggctac |            |            |            | 2160 |
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| ctcttttgtg              | actcttgtac | agcttaatgt | gcaataaagg | aaaagttata | tctgtc     | 2396 |
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|                         |            | aaagtggagt |            |            |            | 360  |
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| tgtggtttat              | tctagacttg | ggtgtggtgt | aggcagggcc | tacatccaag | gagctgattg | 480  |
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| aaaaaaaaaa              |            | agaccccgga | caaccaaacc | cgcccccca  | ooogoaaaaa | 671  |
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| <213> Homo              | saptens    |            |            |            |            |      |
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|                         |            |            |            |            | acatgattaa | 240  |
| agttgacctt              | ttaatactgt | agtaccttgc | tgttaagtaa | ccccactatt | gtatctgcat | 300  |
|                         |            |            |            |            | gaaaaatggg | 360  |
|                         |            | tttattttat |            |            |            | 420  |
|                         |            | gatagtcaca |            |            |            | 480  |
|                         |            | caatcctatg |            |            |            | 540  |
|                         |            |            |            |            |            | 600  |
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|---|--|---|--|--|---|
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|---|--|
| <210> 11843<br><211> 291<br><212> DNA<br><213> Homo sapiens   |  |
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| <210> 11844<br><211> 476<br><212> DNA<br><213> Homo sapiens   |  |
| <pre>&lt;400&gt; 11844 ggctggcagt acctaccatt tatggtcaaa caatttttat agggtattta tttgcatttg tcactcttgt ggcatttgta gctaatattt tctctctttg ttggcaggtg cgttaaacct ctacagtttg tcaagctttg cagtgcaagc ctctgtatta cactgcagct taacaagtag ggcagggctt ttctctcact tacatttatt tctcattttc caaacaatat agttggtttg ctagtcacat ttgctacgtc ttattgcatt tttggtcaga cgctgtcatt gatgctctaa tgggtctgtg ccctatggtc tgtaacccaa agcctgcca cacaacccgg tcagaatgca gggactgctg cgctttgaag atcaagactc tgcacgtggg gatcagaaca ttgccatgtt ctatccaacc tccacccaaa tggtaatggt agattattta aacaaaattc cagtaa</pre> | 120<br>180<br>240<br>300<br>360              |
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| <210> 11846<br><211> 88<br><212> DNA<br><213> Homo sapiens  |  |
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| <212> DNA    |             |             |            |            |             |      |
| <213> Homo   | saniona     |             |            |            |             |      |
| \Z13> 11011Q | papiens     |             |            |            | •           |      |
| -100- 1101   | 7           |             |            |            |             |      |
| <400> 1184   |             |             |            |            |             |      |
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<sup>&</sup>lt;213> Homo sapiens

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<212> DNA
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<213> Homo sapiens

# <400> 11849

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| ctggctccat  | agaatagact  | gtctggcagg               | gaggcctgat | atttatatta | gcacagaagc | 5700         |
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|             |             | gaagctgtgg               |            |            |            | 5760         |
|             |             | ggggtgggag               |            |            |            | 5820         |
|             |             | agtgaatctt               |            |            |            | 5880         |
|             |             | tttctttct                |            |            |            | 5940         |
|             |             | aaaaggcagc               |            |            |            | 6000         |
|             |             | gtttgagcct               |            |            |            | 6060         |
|             |             | cgcacagcca               |            |            |            | 6120         |
|             |             | ttttcatctg               |            |            | 353-5      | 6168         |
| Congococo   | cugocougoo  |                          |            | *          |            |              |
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| ttccacctca  | tagagtccag  | cccacttgtt               | ctgggatggc | agaagcatca | ctgaccttat | 120          |
| tccccaggtc  | cgggacactc  | tgatgctggc               | agacaagccc | ttcttcctgg | tgctggagga | 180          |
| agatggcaca  | actgtagaga  | cagaagagta               | cttccaagcc | ctggcagggg | atacagtgtt | 240          |
| catggtcctc  | cagaaggggc  | agaaatggca               | gcccccatca | gaacaggtga | ggtcccacct | 300          |
|             |             | aaatcgggac               |            |            |            | 360          |
|             |             | gggacaaggc               |            |            |            | 420          |
| agaagattga  | tgtggcccgt  | gtaacgtttg               | atctgtacaa | gctgaaccca | caggacttca | 480          |
| ttggctgcct  | gaacgtgaag  | gcgacttttt               | atgatacata | ctccctttcc | tatgatctgc | 540          |
|             |             | catcatgaag               |            |            |            | 600          |
|             |             | cccctatctg               |            |            |            | 660          |
|             |             | aaagcatagc               |            |            |            | 720          |
|             |             | caccggcgtg               |            |            |            | 780          |
|             |             | tttatgacta               |            |            |            | 840          |
|             |             | agtagtcttc               |            |            |            | 900          |
|             |             | gcctgtaatc               |            |            |            | 960          |
|             |             | gagaccagcc               |            |            |            | 1020         |
|             |             | acatcgtggt               |            |            |            | 1080         |
|             |             | gaagctagga               |            |            |            | 1140<br>1200 |
| -           |             | aaaagagcaa               |            |            |            | 1260         |
|             |             | gaattcatta               |            |            |            | 1320         |
|             |             | aaatcccaca               |            |            |            | 1380         |
|             |             | cacctgggat<br>tgagaccagc |            |            |            | 1440         |
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|             |             | ggaggattgc               |            |            |            | 1560         |
|             |             | actccagcct               |            |            |            | 1620         |
|             |             | tgtatacata               |            |            |            | 1680         |
|             |             | cctccatatg               |            |            |            | 1740         |
|             |             | tgaacttttc               |            |            |            | 1800         |
|             |             | tatgtgaggt               |            |            |            | 1860         |
|             |             | ccatgttaat               |            |            |            | 1920         |
|             |             | ttttacccat               |            |            |            | 1980         |
|             |             | aataagactg               |            |            |            | 2040         |
|             |             | atgccaggca               |            |            |            | 2100         |
| tgagctagac  | tgcaggtggc  | ttggacaggc               | ctcagagtct | agaacagagt | gtctcaaggt | 2160         |
|             |             | ttaatctggt               |            |            |            | 2220         |
|             |             | ttttgcatga               |            |            |            | 2280         |
|             |             | cgcactaatc               |            |            |            | 2340         |
|             |             | atgaaatgct               |            |            |            | 2400         |
|             |             | aacataatga               |            |            |            | 2460         |
|             |             | tacactcttg               |            |            |            | 2520         |
|             |             | cacccaggct               |            |            |            | 2580         |
| caacctctgt  | ctcccaggtt- | caagtgattt               | tcgtgcctca | gcttcccgag | tagctgagat | 2640         |
|             |             |                          |            |            |            |              |

| tacaggtgtc tgccaccacg | cccggctaat | tttttgtatt | ttttagtaga | gacggggttt   | 2700       |
|-----------------------|------------|------------|------------|--------------|------------|
| cgccatgttg gccaggctgg |            |            |            |              | 2760       |
| acctaaagtt ataggattac |            |            |            |              | 2820       |
| attgttttt gagactgaat  |            |            |            |              | 2880       |
| cggctcactg tgacctccgc |            |            |            |              | 2940       |
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| cagagattcg ccatgttggc |            |            |            |              | 3060       |
| ccatggcctc ccaaagtgct |            |            |            |              | 3120       |
| gttttgactt gcgtgccctc |            |            |            |              | 3180       |
| catgcaggcc acaggccacg |            |            |            |              | 3240       |
| tgctacggag gaagggcagc |            |            |            |              | 3300       |
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| gaagatactg cagtgaaagc |            |            |            |              | 3420       |
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| ccacacctcc ctcaccgcgc |            |            |            |              | 3540       |
| ggttggccaa aggagaacct |            |            |            |              | 3600       |
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| tagcaatccg gcctcgcagg |            |            |            |              | 3660       |
| cggaacattc ctgagtgaat |            |            |            |              | 3720       |
| aaattattga ggctgatgta |            |            | tggggtgggg | ttttatctgg   | 3780       |
| aaggttggag ggggctaaag | gaagagacga | a          |            |              | 3811       |
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| ggcctcatcc cttatcccga |            |            |            |              | 180        |
| agctttcccc agtgaaggac |            |            |            |              | 240        |
| ctggcagctg tagagccgcg |            |            |            |              | 300        |
| aggaggagga gctggaaacc |            |            |            |              | 360        |
| tgatccagct ccttcctgcc |            |            |            |              | 420        |
| ccctccattg gcatgaagtc |            |            |            |              | 480        |
| gtgctctcta.ccttctggcc |            |            |            |              | 540        |
| agcatgtgat attagggagt |            |            |            |              | 600        |
| tgttctttgg ggtggggttt | tatctggaag | gttggagggg | gctaaaggaa | gagacgaa     | 658        |
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| tccccaggtc cgggacactc |            |            |            |              | 180        |
| agatggcaca actgtagaga |            |            |            |              | 240        |
| catggtcctc cagaaggggc |            |            |            |              | 300        |
| gttgcacctg atgggggaga |            |            |            |              | 360        |
| atttgcttgt ctcaatgcag | gggacaaggc | acccactgtc | cctctcccat | aagcctgcca   | 420        |
| agaagattga tgtggcccgt | gtaacgtttg | atctgtacaa | gctgaaccca | caggacttca   | 480        |
| ttggctgcct gaacgtgaag |            |            |            |              | 540        |
| actgctgtgg ggccaagcgc |            |            |            |              | 600        |
| gggtacaggc aatgggagag | cccctatctg | tccacatgga | ctcagccttc | tcagcgcctg   | 660        |
| ggtctggctt tggtgctgac |            |            |            |              | 720        |
| tctcgaagtg ctgtggacga |            |            |            |              | 780        |
| gaacctggat gcattttatt | tttatgacta | ctttccactc | tagtaactac | attttttcat   | 840        |
|                       |            |            |            |              |            |

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| cagcctgacc aacatggtga                                       | aacccggttt | ctattaaaaa | caaaaaaatt | agctggccag | 4560 |
|---|------------|------------|------------|------------|------|
| catggcaggc gcctgtactc                                       |            |            |            |            | 4620 |
| ctgggaggca gaggttgtgg                                       | taagccaaga | tcgtgccact | gcactacagc | ctgggtgaca | 4680 |
| gagcgagact ccatctcaaa                                       | aaaaaaaaaa | aaaggctgaa | cttgtagaac | ttgtaggtga | 4740 |
| ctgttttatt tagtctgtga                                       |            |            |            |            | 4800 |
| ccggatatcc cggcactttg                                       |            |            |            |            | 4860 |
| agagcagcct gggcaacata                                       | gccagaccct | gtctctacac | tagataataa | aaaaaaatta | 4920 |
| gcagagcatg gtggctgtag                                       |            |            |            |            | 4980 |
| gcccagtagg tcgcggctgc                                       |            |            |            |            | 5040 |
| cagagtgaga gcctgtctct                                       |            |            |            |            | 5100 |
| cagccgcagt ggctcacgcc                                       | tgtaatccca | gcgctttggg | aggccaaggc | gggtggatca | 5160 |
| caaggtcagg catttgagag                                       |            |            |            |            | 5220 |
| tacaaaatat tggccgggca                                       |            |            |            |            | 5280 |
| aggcaggaga attgcttgaa                                       |            |            |            |            | 5340 |
| tgcactctag cctggacgac                                       | agagtgagac | tccgtctcaa | aaaagaaaca | aacaaacaaa | 5400 |
| aaacgaaaaa caaaacaaaa                                       |            |            |            |            | 5460 |
| gtagtaaata ctaaggcaaa                                       |            |            |            |            | 5520 |
| agcggaccca aaccctgcag                                       |            |            |            |            | 5580 |
| ctattccggg ctctcctgct                                       |            |            |            |            | 5640 |
| ggctccatgg ggtgggctgt                                       |            |            |            |            | 5700 |
| tcccagtcca cccttgatga                                       |            |            |            |            | 5760 |
| agtaacagag ttggagtggg                                       |            |            |            |            | 5820 |
| gagatccgga gtttcacaag                                       |            |            |            |            | 5880 |
| ccagggaaaa caaggttctt                                       |            |            |            |            | 5940 |
| gctgtggtca gtgaacagaa                                       | aaggcagcct | ctgatgaggc | ttgggggctg | gggagggaag | 6000 |
| attccaaaca gcaaaggagt                                       |            |            |            |            | 6060 |
| gcctttcctg gggccccccg                                       |            |            |            |            | 6120 |
| agccctcca gctcagcctt  | ttcatctgtt | caagctggtg | ctcgggagtg | cacaggatgc | 6180 |
| ctttcagaag aattctaaat                                       | cccgggggcc | tgtgatgcca | cagtcacatg | tctgagccca | 6240 |
| aaacaagaga accacttgt  |            |            |            |            | 6259 |
| <210> 11855<br><211> 346<br><212> DNA<br><213> Homo sapiens |            |            |            |            |      |
| <400> 11855   |            |            |            |            |      |
| tagtgattcc acagcagagg                                       | gcctgggctc | cagttccacc | tcatagagtc | cagcccactt | 60   |
| gttctgggat ggcagaagca                                       |            |            |            |            | 120  |
| ggcagacaag cccttcttcc                                       |            |            |            |            | 180  |
| gtacttccaa gccctggcag                                       |            |            |            |            | 240  |
| gcagcccca tcagaacagg  | tgagggtcca | cctgttgcac | ctgatggggg | agaaaatccg | 300  |
| gactctggga gatgtcttca                                       | aggggtgcta | accatttgct | gggctc     |            | 346  |
|   |            |            |            |            |      |
| <210> 11856<br><211> 309<br><212> DNA                       | ٠          |            |            |            |      |
| <213> Homo sapiens  |            |            |            |            |      |
| _   |            |            |            |            |      |
| <400> 11856   |            |            |            |            |      |
| ttttttttt tttgagacgc  | agtctcactc | tgtcgcctgg | gctggagtgc | agtagtgtga | 60   |
| tctcggctca ctgcaagctc                                       | cgcctcccgg | gttcatgcca | ttctcctgcc | tcagcctccc | 120  |
| aagtagctgg gactacaggc                                       |            |            |            |            | 180  |
| gagacggggt ttcaccgtgt                                       | tagccaggat | ggtgtcgatc | tcctgacctc | gtgatccgcc | 240  |
| ggcctcggcc tcccaaagtg                                       | ctgggattac | aggcgcaagc | caccgcgccc | gacccatata | 300  |
| tgtatttt  |            |            |            |            | 309  |
|   |            |            |            |            |      |

<210> 11857

| <211> 290 <212> DNA <213> Homo sapiens <400> 11857 tttttttttt tttgagacgo tctcggctca ctgcaagcto aagtagctgg gactacaggo | cgcctcccgg<br>acccgccacc | gttcatgcca<br>acgcccagct | ttctcctgcc<br>aattttttgt | tcagcctccc<br>atttttagta | 60<br>120<br>180 |
|--|--------------------------|--------------------------|--------------------------|--------------------------|------------------|
| gagacggggt ttcaccgtgt<br>ggcctcggcc tcccaaagtg   |                          |                          |                          | gtgatccgcc               | 240<br>290       |
| <210> 11858<br><211> 423<br><212> DNA<br><213> Homo sapiens  |                          |                          |                          |                          |                  |
| <400> 11858<br>ttcccatctc catacttttc   | : taatgtaatg             | atcagggatt               | tttttttac                | ctaccagcct               | 60               |
| agacactetg accecetaat  |                          | _                        | •                        | -                        | 120<br>180       |
| ttcacccctg taatccgago  | actttaggag               | gctgaagtgg               | gtagatcgct               | tgagtacagg               | 240              |
| agttcaagac cagcctgggcaatagtcagg catggtggca   |                          |                          |                          |                          | 300<br>360       |
| gatetettga geetgggaag<br>gee   | cagaggttgc               | aatgagccaa               | cattgcgaca               | gtgcactcca               | 420<br>423       |
| 900  |                          |                          |                          |                          |                  |
| <210> 11859  |                          |                          |                          |                          |                  |
| <211> 309<br><212> DNA   |                          |                          |                          |                          |                  |
| <213> Homo sapiens   |                          |                          |                          |                          |                  |
| <400> 11859  |                          |                          |                          |                          |                  |
| ttttttttt tttgagacgo<br>tctcggctca ctgcaagcto  |                          |                          |                          |                          | 60<br>120        |
| aagtagctgg gactacaggo  | acccgccacc               | acgcccagct               | aattttttgt               | atttttagta               | 180              |
| gagacggggt ttcaccgtgt<br>ggcctcggcc tcccaaagtg   |                          |                          | _                        |                          | 240<br>300       |
| tgtattttt  |                          |                          |                          |                          | 309              |
| <210> 11860  |                          |                          |                          |                          |                  |
| <211> 1893   |                          |                          |                          |                          |                  |
| <212> DNA<br><213> Homo sapiens  |                          |                          |                          |                          |                  |
| <400> 11860  |                          |                          |                          |                          |                  |
| cagagccaag tacataaaca  | • •                      |                          | _                        | •                        | 60<br>120        |
| ctagattctc taatattctg<br>attttgatga aatattttgt   |                          | _                        | _                        | -                        | 180              |
| tcagatttag gtaaatctga  |                          |                          |                          |                          | 240<br>300       |
| atatagcttt aggatttctc<br>ccaggaatag ataaagacga   |                          |                          |                          |                          | 360              |
| gaaaggcagc agtaggtgtg  |                          |                          |                          |                          | 420<br>480       |
| gttctgttcc gaaacaccaa<br>tcacttcggg atgaatccca   |                          | -                        | -                        |                          | 540              |
| aaactagcca agcaggagcg  |                          | -                        |                          |                          | 600<br>660       |
| aagcgataac cttggcctacgttgtgtatt taagagaaat   |                          | _                        |                          |                          | 720              |
| attgtttaca tggtcaaaag  | g gaaaatcaaa             | atcacttcta               | attacaaaat               | gtgctgtttt               | 780              |

| ggtggggtgg gcaatcagat tattatagtt gatgactgta ccaagatctg gaatgggggc | 840  |
|---|------|
| cacctttata ttttaatact caagtcctgt gctccttttg gccactttaa aaagtcttcc | 900  |
| ctcaccttgg ataaatagga ttcagaaagc taacagtttt cattctgaag gagcagaaac | 960  |
| ataatcaatc cctccctgag ataaaatgtg ggcatgcaca ttgctttgga gtcagtattc | 1020 |
| agctgtaagt gtagtattgt tttatggctg aaatagaaag ctaatgaaga ggcctacctg | 1080 |
| gatccagatt ttatgttaac atggcagcaa aactaggaaa atgggaagaa attacttgcg | 1140 |
| gggtgttcta gatctgattt ttttttttt tttgaaagtt tcagcctgtg ggaggaaaag  | 1200 |
| aggtatettt taaaatagag atagttacat atttteetea tetaggetgt gteactattg | 1260 |
|   | 1320 |
| ctggtagaga ttttaatcct gatttttcca taaaacatga gtattaagaa ataattcctg | 1380 |
| gtttggagaa actggagaaa tcaccctttt aaggaagaaa cactggaaat ttctgctaac | 1440 |
| accaagatat ttaagagtgt acatagtagg tgctcaacaa atttattgaa tgaatgagtg | 1500 |
| aatggaaaaa ctgggagagt caaaagtgag cagaagctct ccatttctac ttctgtcaca | 1560 |
| aaccacatta aattgtaaat aaggcccttc tccacttgac ttcaggcagc agattgtcta | 1620 |
| gaagcctaag gacagcaatt tctctgacaa gacaaagtag atattttata ccaggggttg | 1680 |
| gcaaactact gcccacgggc cgaatttggc ccagtctgtt tttgtatggt gcaaactaaa | 1740 |
| aatgattttt acatttttaa agagttataa aagaaaaaaa tatgtggtct gtgaaatcta | 1800 |
| aaatatttac tacctggcct gttggaggaa aggtccgcca atctctgttt tataccaaaa | 1860 |
| actatgagat taacaaaaac ttttaccttt gtg                              | 1893 |
|   |      |
|   |      |
| <210> 11861   |      |
| <211> 4498  |      |

<212> DNA

<213> Homo sapiens

| <400> 11861 |            |            |            |            |            |      |
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| aaggaggagg  | cccttcagca | acggagtggg | cctgcattct | gcggagggtg | agactgaggt | 60   |
| ggctgcagtc  | aaaggagaag | ggggcagggg | tttgttgagg | ctgtgaccgt | gggaaagcgc | 120  |
| ttctccaggg  | cttccctcag | cttcaaggag | aaagagttca | gaggccctga | ggggatgaag | 180  |
|             |            | gggggatggg |            |            |            | 240  |
| cccttctgcc  | tatgctcccc | caatgttcct | gtctctcccc | tccccacct  | tggccccctc | 300  |
| tttggcccct  | gtggccaaag | ttgttgagga | aggagggagt | agatggaggg | ctcttttcac | 360  |
| cagaagaccc  | ccaggcacaa | gcagcccacc | ttactgatgg | tcagagcatc | cagaagaagt | 420  |
|             |            | caaagcagga |            |            |            | 480  |
|             |            | ggggtctgga |            |            |            | 540  |
| aatggttatg  | agaggaggtg | ggcaggatgt | tctgtaccaa | gggccacact | gtcccttcct | 600  |
| ggaagaaaca  | gtgggtaccc | agcacccaga | gcttctccca | catgctggcc | accgcctctg | 660  |
|             |            | caactgcctc |            |            |            | 720  |
| tcattattct  | caagtgcatc | aaccccgaag | gactgaagcc | ccgagtccca | ataaacaggt | 780  |
| cccatccatc  | cgtaggccag | tccgctgggc | ccctagcacc | ccctatgggc | aggaagcaac | 840  |
| actaatggag  | gaggagcctc | cagcagcctg | gggtggggtg | ggggtgggag | agtgagacgt | 900  |
| gagggaggag  | agagacttgc | cctctaggaa | gcggacagac | catgcctcag | gaaaccccag | 960  |
| tgtcacaggt  | cacagacact | gaccttgaag | cgttactctc | atgggtgaaa | tttagcccct | 1020 |
| gtcctcagga  | agctcccagt | ctgacggggg | acacatatag | tgctctcaga | gctgccttct | 1080 |
|             |            | tgggcttcag |            |            |            | 1140 |
| ccctgccctt  | agggatctct | caaatgaggc | atacccactg | gactttcggg | aaccatcaat | 1200 |
|             |            | gagatttcaa |            |            |            | 1260 |
| aagacgtcca  | attaaattga | atatcagata | aacaacgaat | aatattttag | cataagtctg | 1320 |
|             |            | agacttacac |            |            |            | 1380 |
|             |            | tctggtaacc |            |            |            | 1440 |
| ggacaccccc  | tccaccccag | acataggaaa | gcaggtaaac | acctcagcgt | gctccggagg | 1500 |
| gcaggggtgg  | ggcaggagga | gagtcctggg | gctccggctc | gcggcagttt | aaaattcctt | 1560 |
| ccaggccaga  | gccctaatcc | ctcggtgcac | aatggccgcc | ttctcccccg | ccgcccgcgc | 1620 |
| ccacgccctc  | ccccgcgggg | ccgtggcagt | gccaccaagg | gcctctttaa | gcccctttga | 1680 |
| agccgcggag  | ccccgcgccg | caggaggccc | cgccgctatg | ccagctatgc | cagctatgtc | 1740 |
|             |            | ccgctcccc  |            |            |            | 1800 |
|             |            | ccccgcgccg |            |            |            | 1860 |
| agggctcgac  | tagagcaagc | gcccgcactc | caccccactc | cctcgagatg | tagctgacgt | 1920 |
|             |            | ggtctgtagc |            |            |            | 1980 |
| ttgggaggtc  | tccgcctagc | cactgcgttt | gccttcctct | tttccagtcc | acctgcgcac | 2040 |

| caggggcagg acacgtggct   | adatacadac | actaacccaa   | atgtcgcgga   | ggactcgcgg | 2100 |
|-------------------------|------------|--------------|--------------|------------|------|
| gccggtagag cgcgcggcgg   | caacaacaac | aacaacaaca   | ggaggagacg   | caggtcacgc | 2160 |
| cccttccca ccacctcccg    | ccaccascaa | aacacacaca   | ccgaggagcc   | cgggacaggt | 2220 |
| gactcctaga ggactgcgtc   | tacacctccc | ccaacaaaaa   | tcccttcttc   | gcggcctctg | 2280 |
| ccgcccctg cgtccctcc     | tagacttcca | agagtctgac   | tcagccaagc   | cggcatcgct | 2340 |
| tcgcctccta caacacaccc   | cgagcgcgag | aagaaattac   | aggattgcag   | gggcacggct | 2400 |
| aatgcgctct aattacccac   | caccactate | atccacaaca   | ctccgcggcg   | ctgggccaac | 2460 |
| gcgccgtaat taagacgccg   | ctccccaatc | ccggaaccct   | cccttcgcca   | ccctccaccc | 2520 |
| acceactcg cggtcccag     | gaccactggc | toccaactcc   | taccaccete   | tgggactgcc | 2580 |
| cctcagtccc aggagagcta   | tgaggcctca | ctgggggcag   | aacttgggga   | gaccgaagcc | 2640 |
| ggccttcca ctccctaaa     | cctacagtcc | tagaaggtct   | ctgctggaag   | agactgggag | 2700 |
| agtggggagg ggccagggac   | ctatttcqtt | gacagaaaca   | gtgaggtcta   | ttggaaagtt | 2760 |
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| gccatagggg agctggtgag   | gagtgaggtg | actctaacct   | cccatgtcag   | gtagggtgag | 3060 |
| agaggcctg aagatagaag    | ccaggcccga | aggccagaat   | taaaggggta   | gcttggccat | 3120 |
| cageteette ecceaaaace   | aggctcagag | ctctcctcta   | tcagcaattc   | tttcctgagg | 3180 |
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| ggcttgcaat gagtacatgg   | gttttaggtt | gaatgtgaga   | gtctgcagac   | aatgtgggtt | 3300 |
| ctccgactgc cctcccagtg   | aaggtggacc | tctgatttag   | accggcccgc   | tgggcccgtg | 3360 |
| cctacatcct tttcctcagc   | gtcaggatct | tagtccccat   | gattgctgcc   | cctttgtggt | 3420 |
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| catcgtcagg ctcccactt    | gcagtggccg | tggtggctgc   | acatgctccc   | ggatacccct | 3540 |
| ccagcactcc cttttgtcat   | cttgagtttc | agtccgtgac   | ttgggtggca   | ccctatcttc | 3600 |
| tccatcaggg atggtagcta   | tttttctgcc | atgagactag   | aggttgcttg   | agaacaggaa | 3660 |
| attggatctc tcccttcagg   | ctgggatttc | actaagggct   | ggagaagggg   | ggaatatggg | 3720 |
| aggattatct cctatcacag   | ggagcgctct | gagggcaagg   | ctgtgtctcc   | gattcagact | 3780 |
| gacggttccc tgaggatggg   | gctgtttctc | ccctccgact   | ggggctccct   | gaggatgggg | 3840 |
| ctatttctcc cctccgactg   | gggctccctg | aggacagggc   | tgtgtctccc   | ctcagcctgg | 3900 |
| ggctccctga gtcagggctg   | tgtctcccct | cagactgggg   | ctccctgagg   | acggggctgt | 3960 |
| gtctgcctca gactgggaat   | ccctgaagat | ggggccgtgt   | ctccctcaaa   | gtggggctcc | 4020 |
| ctcaggacag cgttgtgtct   | cccctcagac | tgcggctccc   | tgaggacggg   | gctgtgtctc | 4080 |
| cctcagactg gggctccctg   | aagaaagggc | tgcttctccc   | tcagactgga   | gctccctgaa | 4140 |
| gatggggctg tgtccccctc   | agactggggc | tgcctgagga   | . tgaggctgca | tctcccctca | 4200 |
| gactggagct ccctgagggc   | agggctgtct | cccccttca    | gactggggcc   | tcccccaaag | 4260 |
| gacagggact gtgtctcccc   | tgggactagg | ttctttgtgt   | cttctgcatc   | agacagattc | 4320 |
| ccatgaggac agggctgtct   | cccctccat  | ctggagctcd   | : ctgaaggcaa | tggcctctcc | 4380 |
| cctcaaatgg gacatttgca   | ccccacccca | . ccctctggct | ccccatggcg   | cccaggcatt | 4440 |
| cctcccagga caccatttgt   | cacgctttga | tgaatgaaac   | : ttactaagaa | taactcag   | 4498 |
|                         |            |              |              |            |      |
| <210> 11862             |            |              |              |            |      |
| <211> 11862             |            |              |              |            |      |
| <211> 1331<br><212> DNA |            |              |              |            |      |

<212> DNA

<213> Homo sapiens

### <400> 11862

| <400> 11002 |            |            |            |            |            |     |
|-------------|------------|------------|------------|------------|------------|-----|
| gtgaggggct  | tagcacctgg | gccagcagct | gctgtgctca | atttctcccc | gggccttagc | 60  |
| tgccttcccg  | cggggcaggg | ctcgggacct | gcagcctgcc | atgcctgaga | ctcctcctgg | 120 |
| ctccgtgggc  | tcctgtgcgg | ccagagcctc | cccgacgagc | gccaccccct | gctccatggc | 180 |
| gcccagtccc  | atccaccacc | caagggctga | ggagtgcggg | cgcacagcgc | cggactggca | 240 |
| ggcagctcca  | cctgcagccc | tggtgcagga | tccactgggt | gtagccagct | gggctcctga | 300 |
| atctaataaa  | gacgtggaga | acctttatgt | ctagctcagg | gattgtaaat | acaccaattg | 360 |
| gcactctgta  | tctagctcaa | ggtttgtaaa | cacaccaatc | agcactgtga | atgcaccaat | 420 |
| cgacactgta  | tctagctact | ctggtgggga | cttggagaac | ctttgtgtca | acactctgta | 480 |
| tctagctaat  | ctaqtqqqa  | catggtgaac | ctttgtgtct | agctcggatt | gtaaacgcac | 540 |
| caatcagcac  | cctqtcaaaa | cagaccactg | ggctctacca | atcagcagga | tgtgggtggg | 600 |
| gccagataag  | agaataaaag | caggctgccc | cagcccgcag | tggcaacccg | ctgggatccc | 660 |
| tttccacqct  | gtggaagett | tgttcttttg | ctctttgcaa | taaatcttgc | tactgctcac | 720 |
|             |            | -          |            |            |            |     |

| tctgtaggtc cacgctgct ttatgagctg taacactcac cgcgaaggtc tgcagcttca ctcctgaagc cagcgagact acgagccac cgggaggaac agacaactcc agacggcgcg ccctaagaac tgtaacactc accgcgaagg tctgcagctt cacccctaag ccagcgagac cacgaaccca ccagaaggaa gaaactctga acacatctga acatcagaag gaacaaactc tggacacgct gtcttaaga actgtaacac tcaccgcgag ggtccgcggc ttcattcttg aagtcagtga gaccaagaac ccaccaattc cggacacagg aggatcgctt gagcccagga attcaagacc agcctgggca acccagcaac actccatctc tacagaagtt gtaaaattag ctgggcgta tggggcgcat ctgtagtcct agctacttat cctagccttg gcgagaggat cacttgagcc caggaggtta aggctgcagt gagccatgat tgcaccactg cactccagcc ggggtaacaa agtcagaccg tgtctctaaa aataaataaa taaataaaa taaaataaat  | 780<br>840<br>900<br>960<br>1020<br>1080<br>1140<br>1200<br>1320<br>1331   |
|---|--|
| <210> 11863<br><211> 518<br><212> DNA<br><213> Homo sapiens   |  |
| <pre>&lt;400&gt; 11863 tccctctgcc cctccttca gtggagggga gactttgaaa tcaggtgctt gggggggggg</pre>   | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>518   |
| <210> 11864<br><211> 2065<br><212> DNA<br><213> Homo sapiens  |  |
| <pre>&lt;400&gt; 11864 gagaaagtcc aggcaggaac ctggttgtat atgggaagga actgatccaa gttgggagtt taaaatccaa ggaaccagct cagatctgag acttgtgaac taaccttcgg ggctaacagg ccagcaggtc agccaggatg gtgagggtga ctttgctccc aggcagttt ccactccacc ctcaggctgg aggttgttt aaatattta tgtgagggaa gaaagggaag ccagcatgat catctggggc tgtctgctaa tcgtgagcgt gtgtgagag gggacagagag gttttagcac tggcaacagc aatctttat ttatgattaa gtataaagat aggatgtaaa gtccatttgc gttttagctg ttatttacca tgctttaagt taggtgattt taaattattc acattaaatt attcacattc tcatcgcttt agtttctaa ccttatactt ctttcaagat gtccgccaac ccctgaaaat atgtggcaca gttgttggtg cacatatgtg tattttgttg ggttagaggt gcacctgact cagtaaagat tcagtctgct aattactgta ttgctttctc ttagctcaga tggtataatg gaaactata tatttctca ttgtaaactg ttctcaagag gcgattttct actgattcaa gtaaattat gagaggtgag acagatacat taatttttag cataccacaa catttttct catattaatc agaaagctt taaatttttag ttcagaaagg agaggagag agagtataaa aatgcatgtt tgaaagcaca caatgctgcc ctatatagat agagagagag gaaatgcagc tggatttgcc caaatttgca aacacacac ttgcaaatgt tttcaaaatg gtaccacat ttaatttaga aacacacacc ttgcaaatgtc tggaaacata tttggaagag gagtataaa atgtaaaata aatgtgtact ttggaaagaac ttggtaagct ttcaaatgt gtaccacat ttaatttaga aacacacacc ttggaaagaac ttggtaagct atttccaag gcctgaact gagtgcccaa tccactggta aacacacaca agagagggga atattccaa ggcctgaact cattccattg ccatttacat ttggaaagat tcagaaagga atattccaa ggcctgaact cattccattg ccatttacat ttggaaagac aacacacacc ttggaaagaa ttattccaa ttggtaacac ttggaaagacta tcagaaagga atattccaa ggcctgaact cattccattg ccatttacat ttggaaagact tcagaaagga atattccaa ttggtaacag tcactcgtga cacactagat ttggaaagacta ttggaaagaa ttggtaccaca tcactggta aacacacaca aacacacacacc ttggaaagaacacacacacacacacacacacacacacaca</pre> | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>540<br>600<br>720<br>780<br>840<br>900<br>960<br>1020<br>1140<br>1200<br>1260<br>1320 |
| atttgagatg attaatatgc agaaggaaaa aggaagcaaa tgtttaaagt gtatttgtac caaatctaaa tgctttttt tgttgttgtt gttgttgaat cagattagag ttgctcctct attgcttgtc aattcagctg ttataagcat ttttatagaa gggacagaga acaagtgaat  | 1380<br>1440<br>1500   |

| gggttagaaa tccaggaaaa tgcttggtat taggtggtta atactttcca cttgctgtca atacttctct ctcatatgaa cccaggtaat catacagttt | gtaatgggga<br>atagctagta<br>atgctgtcaa | gcatatgtat<br>ctgctacatc<br>gaagtttgcc | aatcttagcc<br>catagataaa<br>aggatccttc | tttgtgtttt<br>tgcatggcaa<br>tttaaaaatt | 1560<br>1620<br>1680<br>1740 |
|---|--|--|--|--|------------------------------|
| ggaattagat aggtatttac   |  |  |  |  | 1800                         |
| acteceaceg tttgtgatte   |  |  |  |  | 1860<br>1920                 |
| gtctcctttg gattgtagca   |  |  |  |  | 1920                         |
| ccttcaaact catttctatt   | gataattaag                             | ccagtatccc                             | tacttactta                             | ctttatttat                             | 2040                         |
| ttaataaaag gtatcttttg   |  | coagoacocc                             | egoccacceg                             | cccaccac                               | 2065                         |
|   |  |  |  |  | 2005                         |
|   |  |  |  |  |                              |
| <210> 11865   |  |  |  |  |                              |
| <211> 2066  |  |  |  |  |                              |
| <212> DNA   |  |  |  |  |                              |
| <213> Homo sapiens  |  |  |  |  |                              |
| <400> 11865   |  |  |  |  |                              |
| gagaaagtcc caggcaggaa   | cctggttgta                             | tatqqqaaqq                             | aactgatcca                             | agttgggagt                             | 60                           |
| ttaaaatcca aggaaccagc   | tcagatctga                             | gacttgtgaa                             | ctaaccttcg                             | gggctaacag                             | 120                          |
| gccagcaggt cagccaggat   | ggtgagggtg                             | actttgctcc                             | caggcagttt                             | tccactccac                             | 180                          |
| cctcaggctg gaggttgttt   | taaatatttt                             | atgtgaggga                             | agaaagggaa                             | gccagcatga                             | 240                          |
| tcatctgggg ctgtctgcta   | atcgtgagcg                             | tgtgtgtaga                             | ggggacagag                             | agttttagac                             | 300                          |
| ttggcaacag caatctttta   | tttatgatta                             | agtataagag                             | taggatgtaa                             | agtccatttg                             | 360                          |
| cgttttagct gttatttacc   |  |  |  |  | 420                          |
| tattcacatt ctcatcgctt   |  |  |  |  | 480                          |
| ccctgaaaa tatgtggcac  |  |  |  |  | 540                          |
| tgcacctgac tcagtaaaga   | ttcagtctgc                             | taattactgt                             | attgctttct                             | cttagctcag                             | 600                          |
| atggtataat gcaagcatat   | acacccccc                              | actgtaaact                             | gttctcaaga                             | ggcgattttc                             | 660                          |
| tactgattca agtaaattat<br>tctaaccaca acatttttc   | tcatattaat                             | gacagataca                             | ttaatett                               | acatetttag                             | 720                          |
| gagaagtata aagttggaaa   | aaatgcatgt                             | ttgaaagcac                             | acaatactac                             | cctatataca                             | 780<br>840                   |
| tagagagaga gagagtataa   | aaatcaaaat                             | gaaacacaac                             | ctacaaatat                             | cadadaacat                             | 900                          |
| atttggaaga ggaaatgcag   | ctggatttgc                             | ccaaatttgc                             | aaaacaccac                             | atattcccac                             | 960                          |
| agcttgtaca tgatgttaaa   | aatqtaaaat                             | aaatgtgtac                             | tattcataca                             | cagtgtgcag                             | 1020                         |
| ttttcaaatg tgtacccaca   |  |  |  |  | 1080                         |
| aattctcgag tgcataacaa   |  |  |  |  | 1140                         |
| aatattccca aggcctgaac   | tgagtgccca                             | atccactggt                             | aaaacatacc                             | agagaaggct                             | 1200                         |
| cttcactttc atggtaacag   | tcattccatt                             | gccatttaca                             | tttgcagaat                             | tcctagaatc                             | 1260                         |
| tctggggaaa atatttacaa   | atagtattat                             | gtcctgcagt                             | cagagagtga                             | atttgtgtgc                             | 1320                         |
| catttgagat gattaatatg   | cagaaggaaa                             | aaggaagcaa                             | atgtttaaag                             | tgtatttgta                             | 1380                         |
| ccaaatctaa atgcttttt  | ttgttgttgt                             | tgttgttgaa                             | tcagattaga                             | gttgctcctc                             | 1440                         |
| tattgcttgt caattcagct   | gttataagca                             | tttttataga                             | agggacagag                             | aacaagtgaa                             | 1500                         |
| tgggttagaa atccaggaaa<br>ttgcttggta ttaggtggtt  | actestaga                              | aagaggetga                             | aaggcaggtc                             | agaacacaat                             | 1560                         |
| tatactttcc acttgctgtc   | agtaatgggg                             | agcatatgta                             | ccatagataa                             | atacataca                              | 1620<br>1680                 |
| aatacttctc tctcatatga   | aatgctgtca                             | agaagtttgc                             | caddatactt                             | ctttaaaaat                             | 1740                         |
| tcccaggtaa tcatacagtt   | taaaaaqtcc                             | ttctggtacc                             | ttacccaata                             | ttactcaacc                             | 1800                         |
| tggaattaga taggtattta   | cccactcccc                             | tttcccccac                             | cttgcacgtg                             | ctacctttcc                             | 1860                         |
| aactcccacc gtttgtgatt   | cattgccatc                             | gtaaaccact                             | gcttctaatg                             | ggaaacatgt                             | 1920                         |
| tgtctccttt ggattgtagc   | agaaaaatta                             | ttgagaacct                             | cttatctagc                             | ctactttcta                             | 1980                         |
| accttcaaac tcatttctat   | tgataattaa                             | gccagtatcc                             | ctgcttactt                             | gctttattta                             | 2040                         |
| tttaataaaa ggtatctttt   | gcctaa                                 |  |  |  | 2066                         |
|   |  |  |  |  |                              |
| <210> 11866   |  |  |  |  |                              |
| <211> 106   |  |  |  |  |                              |
| <212> DNA   |  |  |  |  |                              |

<210> 11866 <211> 106 <212> DNA <213> Homo sapiens

<400> 11866

| tttttttgta tttttagtag                          | g <b>a</b> gatgaggtt     | tcaccatgtt | agccaggatg | gtctcgatct | 60           |
|--|--------------------------|------------|------------|------------|--------------|
| cctgacgtcg tgatccacco                          | acctcagcct               | cccaaagtgc | tgggat     | 3          | 106          |
| 210× 110C7                                     |                          |            |            |            |              |
| <210> 11867<br><211> 106                       |                          |            |            |            |              |
| <212> DNA                                      |                          |            |            |            |              |
| <213> Homo sapiens                             |                          |            |            |            |              |
| .400 11055                                     |                          |            |            |            |              |
| <400> 11867                                    | , agatgaggtt             | tanaantatt |            |            | 60           |
| tttttttgta tttttagtag<br>cctgacgtcg tgatccacco | agatgaggtt<br>acctcagcct | cccaaagtgc | tagaat     | gtetegatet | 60<br>106    |
|  | J                        |            | - 333      |            | 100          |
| <210> 11868                                    |                          |            |            |            |              |
| <211> 1817                                     |                          |            |            |            |              |
| <212> DNA                                      |                          |            |            |            |              |
| <213> Homo sapiens                             |                          |            |            |            |              |
| <400> 11868                                    |                          |            |            |            |              |
| acaatccaca gcagcccctg                          | ccctcccagc               | tgacccaggg | agtaatcgcg | tgctctaagc | 60           |
| cacagtggtc ggggctgggc                          | atgggcctct               | ggagaagaga | agatttgagg | agaactgtcc | 120          |
| tagaggcagg aggagcagat                          | gtgtttcaga               | atgggcagaa | ttaggaaatt | gagaaagatt | 180          |
| ttggctcaac agaatccago                          | aactgctcca               | gatgttggag | atgtttaagc | agaagctggt | 240          |
| tgcgcactta atgaggaatg<br>tagcctggag attgtacaaa | tcagcattcc               | acatctgga  | ttacctaccc | aggicectit | 300<br>360   |
| tgaacagaca tcttggtctg                          | aaaggaagtg               | gtttggattc | atgatgccaa | gctccacact | 420          |
| atggagctgg gaattccaga                          | attgctttga               | ctcagatatt | aatggagaaa | gtcatatcca | 480          |
| ttaatggata aagccgtatc                          | tgttatggat               | aaagccgtat | ccagagttgc | tttgactcgg | 540          |
| atgttaatgg ataaagccaa                          | ttattgattt               | ctatttgcct | aacctgccag | cttttgtcca | 600          |
| agtggggaat ggagagccat<br>ctgtgggtct ggatggaatt | tattaggaag               | gccattttct | atgttttggt | gatctgctgt | 660<br>720   |
| cagtgtccac cccaaaaggc                          | tttcagccaa               | aacgtctgag | cctaggtagg | tttaccaagg | 720<br>780   |
| gaagccataa gtcaagaagc                          | atcagagtga               | aaaggagcac | ttccttcatt | ttacgcccag | 840          |
| aggctaatgc tccgagagga                          | atgtgtactt               | gggcaaagtc | atgcaggaag | gtcatatcag | 900          |
| agctgtggag gctggagtgt                          | cctgattctt               | ggaccacaga | tgtctccctg | agccattatt | 960          |
| tatttatttt taaaaagcac<br>tggggggcag gactattttc | tcaggtgtgtgt             | catttggg   | tctttgtatt | tegettatat | 1020         |
| ccctatgact agttgaaaat                          | tcaagtgtgc               | ccacagggag | gcacaaaacc | acacccatgc | 1080<br>1140 |
| acacacaca cctcagccc                            | cacacacacc               | ccgttgaacc | cgtgggtcta | tcaggacatc | 1200         |
| ctaaaactcc gtgattgaca                          | tttcagtaat               | ttcaggggaa | ggtgttttcc | agggatgggg | 1260         |
| tctcccaggt tcagatagtg                          | cctttggctg               | caaatgctcc | tttagctaaa | cttttcctca | 1320         |
| ggaagaattc attattctag                          | gagaaggtgg               | tagaggttat | taggaataaa | aggtgcttaa | 1380         |
| ttagaaggct ccagcctgag                          | agagcccttt               | attattgaca | ttcctatcct | tecteaagge | 1440<br>1500 |
| ctggtgacct gtgacctttc                          | gctctgggca               | gggcccaggt | agatgggccg | tcatccgggc | 1560         |
| ctgtaagccg tacttgattt                          | ctgcattgat               | ttacatattt | tttactgtga | tcttggttcc | 1620         |
| aaacacagaa tcgtcacccc                          | attctccctt               | gaatgtgccg | gatccttgta | aattctcatt | 1680         |
| tacctacttg ttcttagtgt<br>acaaagagta agaacatgtt | tataccatta               | gcgaaactct | atgttcaaga | aagaaatcat | 1740<br>1800 |
| tttgttttgc ctcgtta                             | egegeeaceg               | aagaaacggc | ccccgaccc  | Claalaaala | 1817         |
|  |                          |            |            |            |              |
| <210> 11869                                    |                          |            |            |            |              |
| <211> 1817                                     |                          |            |            |            |              |
| <212> DNA                                      |                          |            |            |            |              |
| <213> Homo sapiens                             |                          |            |            |            |              |
| <400> 11869                                    |                          |            |            |            |              |
| acaatccaca gcagcccctg                          | ccctcccagc               | tgacccaggg | agtaatcgcg | tgctctaagc | 60           |
| cacagtggtc ggggctgggc                          | atgggcctct               | ggagaagaga | agatttgagg | agaactgtcc | 120          |

| tagaggcagg aggagcagat                                       | gtgtttcaga | atgggcagaa | ttaggaaatt               | gagaaagatt | 180          |
|---|------------|------------|--------------------------|------------|--------------|
| ttggctcaac agaatccagc                                       |            |            |                          |            | 240          |
| tgcgcactta atgaggaatg                                       | ttgttgaaaa | tggtcattgg | aagaagttta               | aggtcccttt | 300          |
| tagcctggag attgtacaaa                                       | tcagcattcc | acatctggag | ttagctaccc               | gcattaagcc | 360          |
| tgaacagaca tcttggtctg                                       | aaaggaagtg | gtttggattc | atgatgccaa               | gctccacact | 420          |
| atggagctgg gaattccaga                                       |            |            |                          |            | 480          |
| ttaatggata aagccgtatc                                       | tgttatggat | aaagccgtat | ccagagttgc               | tttgactcgg | 540<br>600   |
| atgttaatgg ataaagccaa                                       | ttattgattt | ctatttgcct | aacctgccag               | cttttgtcca | 660          |
| agtggggaat ggagagccat                                       | agggatgttt | gtcatctcac | atgttttggt               | ttetteeeaa | 720          |
| ctgtgggtct ggatggaatt                                       | tgttggcaag | accattttct | gractygara               | tttaccaaca | 780          |
| cagtgtccac cccaaaaggc<br>gaagccataa gtcaagaagc              | atcagactaa | aacgtetgag | ttccttcatt               | ttacgcccag | 840          |
| aggctaatgc tccgagagga                                       | atototactt | adaggageae | atgcaggaag               | gtcatatcag | 900          |
| agetgtggag getggagtgt                                       | cctgattctt | ggaccacaga | tatctcccta               | agccattatt | 960          |
| tatttatttt taaaaagcac                                       |            |            |                          |            | 1020         |
| tggggggcag gactattttc                                       |            |            |                          |            | 1080         |
| ccctatgact agttgaaaat                                       |            |            |                          |            | 1140         |
| acacacac cctcagcccc   |            |            |                          |            | 1200         |
| ctaaaactcc gtgattgaca                                       |            |            |                          |            | 1260         |
| tctcccaggt tcagatagtg                                       | cctttggctg | caaatgctcc | tttagctaaa               | cttttcctca | 1320         |
| ggaagaattc attattctag                                       |            |            |                          |            | 1380         |
| ccttcctccc tgggatgtgg                                       | gagaaggtgc | tggaggttgt | actgtgaagt               | cttcaggctc | 1440         |
| ttagaaggct ccagcctgag                                       | agagcccttt | attattgaca | ttcctgtcct               | tcctcaaggc | 1500         |
| ctggtgacct gtgacctttc                                       | gctctgggca | gggcccaggt | agatgggccg               | tcatccgggc | 1560<br>1620 |
| ctgtaagccg tacttgattt                                       | ctgcattgat | ttacatattt | tttactgtga               | cettggttee | 1680         |
| aaacacagaa tcgtcacccc                                       | atteteett  | gaatgtgccg | atattaaaa                | aacteteatt | 1740         |
| tacctacttg ttcttagtgt acaaagagta agaacatgtt                 | tataccetta | aagaaatggt | ttttgattt                | ctaataaata | 1800         |
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| tggaaacacc cttccggaac                                       |            |            |                          |            | 120          |
| ctgacacccc aaggttcaaa                                       |            |            |                          |            | 180<br>240   |
| acagggtttt aacttgcaat                                       | acggaaaaga | catttcagtt | gagaatgaaa               | attactacaa | 300          |
| tgaagtttgt gattttaaaa<br>tatatatttg gcctcagggt              |            |            | ccggggccgg               | acycaaycac | 332          |
| tatatating general  | geeeagagea | ag         |                          |            |              |
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| -215- Nomo Baptens  |            |            |                          |            |              |
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| tggaaacacc cttccggaac                                       | ccttcgggga | aaaggagacc | atccttggag               | tgaacgtccc | 120          |
| ctgacaccc aaggttcaaa  | ctgtctcaag | ctgagagatg | tttttagtag               | cagaattaac | 180          |
| acagggtttt aacttgcaat                                       | acggaaaaga | cattcagtt  | yayaatgaaa<br>ttaaaaataa | atcactacaa | 240<br>300   |
| tgaagtttgt gattttaaaa                                       |            |            | Liggggeigg               | atytaaytat | 332          |
| tatatatttg gcctcagggt                                       | geceagagea | ug         |                          |            | 332          |
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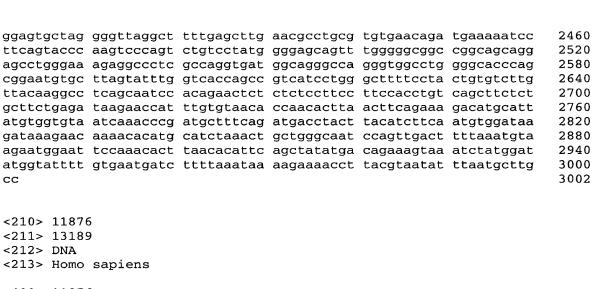
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<213> Homo sapiens

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|  | aacattttct<br>aaaatattat               |            | tgaatacgaa | taaccatgga | ttctaatagc | 720<br>748       |
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|  | caaacaattc                             |            |            |            |            | 660              |
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|  | cctccgtgga                             |            |            |            |            | 840              |
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|  | accttggtca                             |            |            |            |            | 960              |
|  | gctggtttgc                             |            |            |            |            | 1020             |
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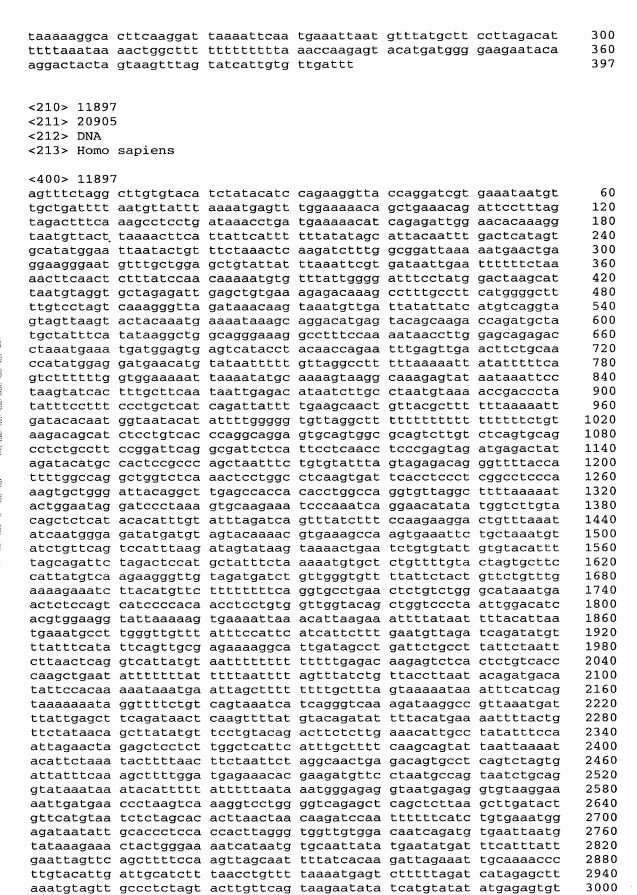
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<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

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| <pre></pre>   |                     |              |            |            |            | 240 |
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| <pre>&lt;211&gt; 3359 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  </pre> <pre>&lt;400&gt; 11900 aggtggatgg agtcagtcct cagttgccc ttctctgcat gcattccttc agaagatcag ttcttaat cctcttggac acacatggg aattcaaagg aaggagtctt accatcagcc acacatctttc acacttt atctaataa tccccccc atcacact ttctttatt accttaataat tccccccc atcacacta ctacatgcag acttacttc aggttaaggc tttgatctgc ctgagagtaa ctctaacagg agggaagata acacatatggga aaaatccaca acgttctt ttgatctgc ctgagagtaa ctctaaaagg agggaagata 360 gctttcctc aggttaaggc tttgatctgc ctgagagtaa ctctaaaagg agggaagata 360 aatatgggat aaaatccaca aagtgtagct tctaattcct ttggaagtt aaaaaatttc 420 cacatatctg atgcttctt ttgcaggtg agaagacacaa aaacatattc cgaagccac 480 tgatagggaa tttggggat attgcagtt gggagatat gctgtgttat tctctcattt 540 ccatggatag ctcatagttg gctctttctg ggtgagtaat tatgtgtaat tatgtaaaa 600 tctttacta aggttacagc tacatgttag gggaggctat gaaaatacta tattattata 660 attcagtgc agtgattgt gtgagaaata acttcatagg ttaccctagg aaaatgggca 720 cctgccacca tcctgagaag tcctcacaca atccacaca aatcacacac caccacacac ccccgtcact aattcataga gttccttagc aggatagtc tcgttacacac acacacacac ccccgtcact actcatgaaa taatgcagaa acagtacctg gtgcagata tgcttcttgc gggcatagtc ctgttgaaag taatgcagaa acagtacctg gtgcagata tgcttcttgc gggcatttc ctctacacaca atcacacaca ccccgtcact actcatgaag taatgcagaa acagtacctg gtccagata tgcttcttagc aggcatagtc gdctcttctc tcgtttacc tcgtttcacc tcacagaga catggacgt agggggggct gcttctacaa 1020 ctgttgaaag taatgcaga acagtacctg ggaatagggggggggg</pre>  |                     | _            |            |            |            |     |
| <pre>&lt;211&gt; 3359 &lt;212&gt; DNA &lt;213&gt; Homo sapiens  </pre> <pre>&lt;400&gt; 11900 aggtggatgg agtcagtcct cagttgccc ttctctgcat gcattccttc agaagatcag ttcttaat cctcttggac acacatggg aattcaaagg aaggagtctt accatcagcc acacatctttc acacttt atctaataa tccccccc atcacact ttctttatt accttaataat tccccccc atcacacta ctacatgcag acttacttc aggttaaggc tttgatctgc ctgagagtaa ctctaacagg agggaagata acacatatggga aaaatccaca acgttctt ttgatctgc ctgagagtaa ctctaaaagg agggaagata 360 gctttcctc aggttaaggc tttgatctgc ctgagagtaa ctctaaaagg agggaagata 360 aatatgggat aaaatccaca aagtgtagct tctaattcct ttggaagtt aaaaaatttc 420 cacatatctg atgcttctt ttgcaggtg agaagacacaa aaacatattc cgaagccac 480 tgatagggaa tttggggat attgcagtt gggagatat gctgtgttat tctctcattt 540 ccatggatag ctcatagttg gctctttctg ggtgagtaat tatgtgtaat tatgtaaaa 600 tctttacta aggttacagc tacatgttag gggaggctat gaaaatacta tattattata 660 attcagtgc agtgattgt gtgagaaata acttcatagg ttaccctagg aaaatgggca 720 cctgccacca tcctgagaag tcctcacaca atccacaca aatcacacac caccacacac ccccgtcact aattcataga gttccttagc aggatagtc tcgttacacac acacacacac ccccgtcact actcatgaaa taatgcagaa acagtacctg gtgcagata tgcttcttgc gggcatagtc ctgttgaaag taatgcagaa acagtacctg gtgcagata tgcttcttgc gggcatttc ctctacacaca atcacacaca ccccgtcact actcatgaag taatgcagaa acagtacctg gtccagata tgcttcttagc aggcatagtc gdctcttctc tcgtttacc tcgtttcacc tcacagaga catggacgt agggggggct gcttctacaa 1020 ctgttgaaag taatgcaga acagtacctg ggaatagggggggggg</pre>  | -210> 11000         |              |            |            |            |     |
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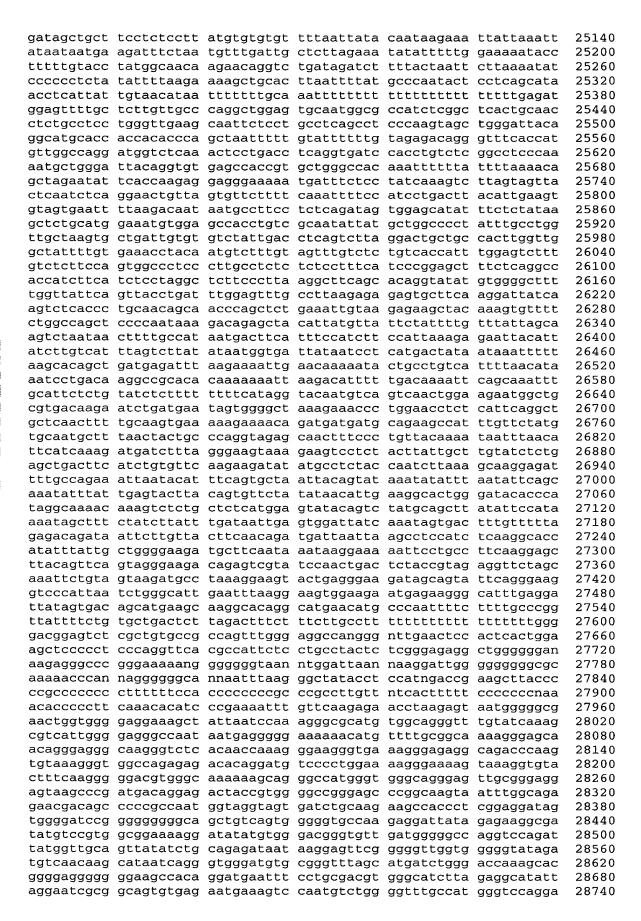
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| aagaaaataa | aataaacaaa | tatatgatgg               | agtaaaaaga | ataaagagtg | aaggcaggta | 14160          |
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|            |            | ctctcctgtt               |            |            |            | 14760          |
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|            |            | tttttttcc                |            |            |            | 15120          |
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|            |            | agcaggagat               |            |            |            | 15300          |
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|            |            | gtggtatgag               |            |            |            | 15420          |
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|            |            | agagaagcaa               |            |            |            | 15540          |
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|            |            | ctgtgttttt               |            |            |            | 15780          |
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                                                                   52260
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cccaaggaag aagaattttt cttagtacag cacaaaatga aaagtctccc atgtctacct 52380
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                                                                   52680
agacgaggcg gctggcctgg cgggggctga cccccacct ccctcccgga cggngcggct 52740
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<213> Homo sapiens
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agctcatgta ctgaagcgtc atgaaagaaa ggctgtggtc tgagcccttc tctcccatct
                                                                      120
                                                                      175
cctgtctttg tcctgtcaag tgctggagcc agagctccta cagctgccct tggtg
<210> 11903
<211> 117.
<212> DNA
<213> Homo sapiens
<400> 11903
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<210> 11904
<211> 2403
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## <213> Homo sapiens

| <400> 11904      |                   |            |            |            |      |
|------------------|-------------------|------------|------------|------------|------|
|                  | gaggc agaaggagaa  | ggtcggattg | tagaagctgg | aataaccaac | 60   |
|                  | gttcg tgggctttgt  |            |            |            | 120  |
|                  | gtcga gagggagccg  |            |            |            | 180  |
|                  | acttg agtgctgagg  |            |            |            | 240  |
|                  | ggccc atgaaaactt  |            |            |            | 300  |
|                  | tatct tgggcttggc  |            |            |            | 360  |
|                  | agact gaaaggtgac  |            |            |            | 420  |
|                  | ccctc aatctagaaa  |            |            |            | 480  |
|                  | acaga attcccagat  |            |            |            | 540  |
|                  | atcag caggtgcctg  |            |            |            | 600  |
|                  | tcaaa gttggaattc  |            |            |            | 660  |
|                  | gaact atgctggtgc  |            |            |            | 720  |
|                  | aagcc actgggtcct  |            |            |            | 780  |
|                  | aaaac cttacttaaa  | _          | _          |            | 840  |
|                  | cagat agttgtcaat  |            |            |            | 900  |
|                  | ittaat gtaaaaaaaa |            | _          |            | 960  |
| atataatggt agtat | cagtg caacttaaac  | taatgattgt | aattgatatt | aagtgttctc | 1020 |
|                  | aagtg gaaaccaagt  |            |            |            | 1080 |
|                  | gggaa gatagtaatt  |            |            |            | 1140 |
| gttggtgaat cggat | tataa gcttctggct  | aacacaagga | ttcagaatta | ggtaaacatc | 1200 |
| tgaaggttta gtata | ittaga aacacccaaa | ccagtaatat | gctaacctga | tgcactgctg | 1260 |
| aaagaaaatg tgaat | ttttc gtaataattg  | cattttagtg | aattgtacag | tgggtggaaa | 1320 |
| gggcatttgg agcto | attag aatgagacat  | agtacacccc | aatggccctg | tttattaaat | 1380 |
| gtagtggatt aagtg | stctgt caacaaatac | accaaaacca | ttttttatag | aaacagtatt | 1440 |
| taatggtcac tcaat | agctt tcaaaataca  | tttttgtatt | acagcactgc | acaagctatt | 1500 |
| ctaatagtga tctgg | scctcc tcattcctgc | caagcttgct | ttggggagtt | ggataatgtg | 1560 |
| aaaattttaa gtacc | taggg gagaaagagc  | catgtaaata | tctgtaataa | acttgtagca | 1620 |
| tatgtaaagt tttct | tggcc tttatcttac  | aaaaatggaa | tattttagta | tgaatttgct | 1680 |
| gaatgtaaga ccgtg | gactg ttttttataa  | tatggcctaa | ttttaaaggt | ccaaaataac | 1740 |
| ttgtttttaa agttt | gccct tgtgctaaag  | tgccagtgta | tgtatgttat | acttgatttg | 1800 |
| gttgtaaact atatt | tcaaa gtaaacccta  | gtgtaataag | ttttataact | aaaaaggttt | 1860 |
|                  | ittttt aagagatgtg |            |            |            | 1920 |
| cctctaagcc caaag | gattaa ctagagtccc | tccaacctta | tagatttttg | gctttcacaa | 1980 |
|                  | itacag gtagtttcga |            |            |            | 2040 |
|                  | ıtgcaa cccaatggac |            |            | _          | 2100 |
|                  | tgttt tgccaacttt  |            |            |            | 2160 |
|                  | ıtttaa aaattttgat |            |            |            | 2220 |
|                  | gcagg taagcagatg  |            |            | _          | 2280 |
|                  | agtta aatattgata  |            |            |            | 2340 |
|                  | ttgaa gcataaaatt  | aaatttttcc | ccattgaaaa | aaaaaaagt  | 2400 |
| aaa              |                   |            |            |            | 2403 |
|                  |                   |            |            |            |      |

```
<210> 11905
<211> 1889
```

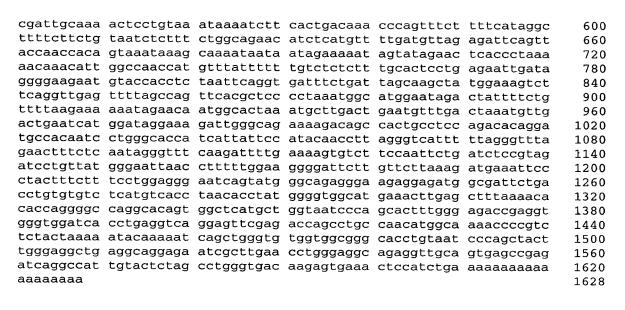
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| ttgttcataa | gaaaaaagaa | agagaccatg | cttataactc | atcagcaggt | gcctggcagg | 60  |
|------------|------------|------------|------------|------------|------------|-----|
| ccatgaaaaa | tggggggaag | aacaaaaatt | ttccaaataa | tcaaagttgg | aattctagct | 120 |
| tatcaggtcc | cagcttactt | tttaaatctc | aagctaaaca | gaactatgct | ggtgccaaat | 180 |
| ttagtgagcc | gccatcacca | agtgttcttc | ccaaaccacc | aagccactgg | gtccctgttt | 240 |
| cctttaatcc | ttcagataag | gaaataatga | catttcaact | taaaacctta | cttaaagtac | 300 |
| aggtataaaa | taagacaaat | gtttaagttt | agttatgttc | acagatagtt | gtcaattggt | 360 |
| ctgaaacaaa | tttgctaggg | aatctatttg | tgtagaacta | attaatgtaa | aaaaaataga | 420 |
| cttcatctcg | tgttgtgtgc | actgtgatat | aatggtagta | tcagtgcaac | ttaaactaat | 480 |
| gattgtaatt | gatattaagt | gttctcaact | gagtaacttt | taaqtqqaaa | ccaaqtttaq | 540 |

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

| atttggggag  | tggtaaagga               | atcagctttt | tctattgtta | ggggaagata | gtaatttatc | 600  |
|-------------|--------------------------|------------|------------|------------|------------|------|
| attcatggac  | cagtagattg               | ttgaaagttg | gtgaatcgga | ttataagctt | ctggctaaca | 660  |
| caaggattca  | gaattaggta               | aacatctgaa | ggtttagtat | attagaaaca | cccaaaccag | 720  |
| taatatgcta  | acctgatgca               | ctgctgaaag | aaaatgtgaa | tttttcgtaa | taattgcatt | 780  |
| ttagtgaatt  | gtacagtggg               | tggaaagggc | atttggagct | cattagaatg | agacatagta | 840  |
|             | gccctgttta               |            |            |            |            | 900  |
|             | ttatagaaac               |            |            |            |            | 960  |
|             | cactgcacaa               |            |            |            |            | 1020 |
| cttgctttgg  | ggagttggat               | aatgtgaaaa | ttttaagtac | ctaggggaga | aagagccatg | 1080 |
| taaatatctg  | taataaactt               | gtagcatatg | taaagttttc | ttggccttta | tcttacaaaa | 1140 |
| atggaatatt  | ttagtatgaa               | tttgctgaat | gtaagaccgt | ggactgtttt | ttataatatq | 1200 |
| gcctaatttt  | aaaggtccaa               | aataacttgt | ttttaaagtt | tgcccttgtg | ctaaagtgcc | 1260 |
| agtgtatgta  | tgttatactt               | gatttggttg | taaactatat | ttcaaagtaa | accctagtgt | 1320 |
| aataagtttt  | ataactaaaa               | aggtttaagc | tgctaaaact | atttttaaga | gatgtgaaat | 1380 |
| gcagtatggg  | actatcttt                | tttcctcctc | taagcccaaa | gattaactag | agtccctcca | 1440 |
| accttataga  | tttttggctt               | tcacaatctt | ataacctagg | atacaggtag | tttcgagtat | 1500 |
| ggtgccagtg  | atgttttgtt               | tttgtttggt | caaggggtag | gtgcaaccca | atggaccact | 1560 |
| tatgcaaaag  | atgtaaactc               | ttgcataata | catcgataac | atgttttgcc | aactttaaat | 1620 |
| gcttaaacat  | aagcgaaacc               | agtagcaagt | atgtgggtca | gtttaaaaat | tttgattgtt | 1680 |
| aatgccctat  | tttctaattt               | ggcacctctt | ttgatgccta | agcaggtaag | cagatgccta | 1740 |
| agctgtattt  | ctccaaataa               | atcaagagga | agtactgccc | aagttaaata | ttgatagcct | 1800 |
| aaagacaaat  | tcatgtagta               | cttaatgtac | atgatatgaa | tttgaagcat | aaaattaaat | 1860 |
| ttttccccat  | tgaaaaaaaa               | aaaagtaaa  |            |            |            | 1889 |
|             |                          |            |            |            |            |      |
|             |                          |            |            |            |            |      |
| <210> 1190  | 6                        |            |            |            |            |      |
| <211> 744   |                          |            |            |            |            |      |
| <212> DNA   |                          |            |            |            |            |      |
| <213> Homo  | sapiens                  |            |            |            |            |      |
|             |                          |            |            |            |            |      |
| <400> 1190  |                          |            |            |            |            |      |
| tattttagta  | tgaatttgct               | gaatgtaaga | ccgtggactg | ttttttataa | tatggcctaa | 60   |
| ttttaaaggt  | ccaaaataac               | ttgtttttaa | agtttgccct | tgtgctaaag | tgccagtgta | 120  |
| tgtatgttat  | acttgatttg               | gttgtaaact | atatttcaaa | gtaaacccta | gtgtaataag | 180  |
| ttttataact  | aaaaaggttt               | aagctgctaa | aactatttt  | aagagatgtg | aaatgcagta | 240  |
| tgggactatc  | tttttttcct               | cctctaagcc | caaagattaa | ctagagtccc | tccaacctta | 300  |
| tagattttg   | gctttcacaa               | tcttataacc | taggatacag | gtagtttcga | gtatggtgcc | 360  |
| agtgatgttt  | tgtttttgtt               | tggtcaaggg | gtaggtgcaa | cccaatggac | cacttatgca | 420  |
| aaagatgtaa  | actcttgcat               | aatacatcga | taacatgttt | tgccaacttt | aaatgcttaa | 480  |
| acataagcga  | aaccagtagc               | aagtatgtgg | gtcagtttaa | aaattttgat | tgttaatgcc | 540  |
|             | atttggcacc               |            |            |            |            | 600  |
|             | ataaatcaag               |            |            |            |            | 660  |
| aaattcatgt  | agtacttaat               | gtacatgata | tgaatttgaa | gcataaaatt | aaatttttcc | 720  |
| ccattgaaaa  | aaaaaaaaag               | taaa       |            |            |            | 744  |
|             |                          |            |            |            |            |      |
| -210- 1100  | <del>-</del>             |            |            |            |            |      |
| <210> 1190  | /                        |            |            |            |            |      |
| <211> 1628  |                          |            |            |            |            |      |
| <212> DNA   |                          |            |            |            |            |      |
| <213> Homo  | sapiens                  |            |            |            |            |      |
| -100× 1100° | 7                        |            |            |            |            |      |
| <400> 1190  |                          |            |            |            |            |      |
| aaalcgcctg  | aagatagtct               | ttcaaatttg | gacatttaaa | aaagaaactt | ttactgtagt | 60   |
| catgaagtag  | tatcaaagtt               | Laccacaagt | ttgtattgag | agaagaacaa | acaatatatg | 120  |
| ttatasses   | aaacagctct               | acttagaaag | ctactgcttg | ggttttctta | ttaggcatag | 180  |
| aattaaaaa   | tgagttggtt               | cractcatct | acatgatttt | tccttgcctt | atggaacaga | 240  |
| taaateatea  | cactcgaatt               | cagttattt  | agggctcttt | aaaatccagt | atttgtgatt | 300  |
| aacaccccc   | ggagggactt               | cartacetg  | ugtetttget | tatttctctc | tggccctcag | 360  |
| ttatasaasa  | cctgaccttt               | ayyyyaaatt | gacagaggca | gagggtttca | cctgcctcaa | 420  |
| tattgaagaa  | ccctgttaca<br>ttgccttcaa | aggage     | taggeettag | cccacaggg  | accttctcat | 480  |
|             | LLUCCLECAA               | aycaytaqaa | Lageceaatt | uttatagaga | ttaaagatac | 540  |



```
<210> 11908
<211> 1628
<212> DNA
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<213> Homo sapiens

<400> 11908

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                                                                      120
ctaatatgaa aaacagctct acttagaaag ctactgcttg ggttttctta ttaggcatag
                                                                      180
ttctccagac tgagttggtt ttactcatct acatgatttt tccttgcctt atggaacaga
                                                                      240
aattcaggcc cactcgaatt cagttatttt agggctcttt aaaatccagt atttgtgatt
                                                                      300
taaatgatgc ggagggactt tcattacctg tgtctttgct tatttctctc tggccctcag
                                                                      360
aacaccccac cctgaccttt aggggaaatt gacagaggca gagggtttca cctgcctcaa
                                                                      420
ttgtcaccag ccctgttaca ttcttccttc caagccttag cctcacaggg accttctcat
                                                                      480
tattgaacaa ttgccttcaa agcagtagaa tagcccaatt gttatggaga ttaaagatac
                                                                      540
cgattgcaaa actcctgtaa ataaaatctt cactgacaaa cccagtttct tttcataggc
                                                                      600
ttttcttctg taatctcttt ctggcagaac atctcatgtt ttgatgttag agattcagtt
                                                                      660
accaaccaca gtaaataaag caaaataata atagaaaaat agtatagaac tcaccctaaa
                                                                      720
aacaaacatt ggccaaccat gtttattttt tgtctctctt tgcactcctg agaattgata
                                                                      780
ggggaagaat gtaccacctc taattcaggt gatttctgat tagcaagcta tggaaagtct
                                                                      840
tcaggttgag ttttagccag ttcacgctcc cctaaatggc atggaataga ctatttctg
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ttttaagaaa aaatagaaca atggcactaa atgcttgact gaatgtttga ctaaatgttg
                                                                      960
actgaatcat ggataggaaa gattgggcag aaaagacagc cactgcctcc agacacagga
                                                                     1020
tgccacaatc ctgggcacca tcattattcc atacaacctt agggtcattt ttagggttta
                                                                     1080
gaactttctc aatagggttt caagattttg aaaagtgtct tccaattctg atctccgtag
                                                                     1140
atcctgttat gggaattaac ctttttggaa ggggattctt gttcttaaag atgaaattcc
                                                                     1200
ctactttctt tcctggaggg aatcagtatg ggcagaggga agaggagatg gcgattctga
                                                                     1260
cctgtgtgtc tcatgtcacc taacacctat ggggtggcat gaaacttgag ctttaaaaca
                                                                     1320
caccaggggc caggcacagt ggctcatgct ggtaatccca gcactttggg agaccgaggt
                                                                     1380
gggtggatca cctgaggtca ggagttcgag accagcctgc caacatggca aaaccccgtc
                                                                     1440
tctactaaaa atacaaaaat cagctgggtg tggtggcggg cacctgtaat cccagctact
                                                                     1500
tgggaggctg aggcaggaga atcgcttgaa cctgggaggc agaggttgca gtgagccgag
                                                                     1560
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                                                                     1620
aaaaaaaa
                                                                     1628
```

```
<210> 11909
<211> 1628
```

<213> Homo sapiens

<sup>&</sup>lt;212> DNA

| <400> 11909           |             |            |            |            |      |
|-----------------------|-------------|------------|------------|------------|------|
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| catgaagtag tatcaaagtt | taccacaagt  | ttgtattgag | agaagaacaa | acaatatatg | 120  |
| ctaatatgaa aaacagctct | acttagaaag  | ctactgcttg | ggttttctta | ttaggcatag | 180  |
| ttctccagac tgagttggtt | ttactcatct  | acatgatttt | tccttgcctt | atggaacaga | 240  |
| aattcaggcc cactcgaatt | cagttatttt  | agggctcttt | aaaatccagt | atttgtgatt | 300  |
| taaatgatgc ggagggactt | tcattacctg  | tgtctttgct | tatttctctc | tggccctcag | 360  |
| aacaccccac cctgaccttt | aggggaaatt  | gacagaggca | gagggtttca | cctgcctcaa | 420  |
| ttgtcaccag ccctgttaca | ttct.tccttc | caagccttag | cctcacaggg | accttctcat | 480  |
| tattgaacaa ttgccttcaa | agcagtagaa  | tagcccaatt | gttatggaga | ttaaagatac | 540  |
| cgattgcaaa actcctgtaa | ataaaatctt  | cactgacaaa | cccagtttct | tttcataggc | 600  |
| ttttcttctg taatctcttt | ctggcagaac  | atctcatgtt | ttgatgttag | agattcagtt | 660  |
| accaaccaca gtaaataaag | caaaataata  | atagaaaaat | agtatagaac | tcaccctaaa | 720  |
| aacaaacatt ggccaaccat | _           | -          | -          | -          | 780  |
| ggggaagaat gtaccacctc | taattcaggt  | gatttctgat | tagcaagcta | tggaaagtct | 840  |
| tcaggttgag ttttagccag | _           |            |            |            | 900  |
| ttttaagaaa aaatagaaca | atggcactaa  | atgcttgact | gaatgtttga | ctaaatgttg | 960  |
| actgaatcat ggataggaaa | gattgggcag  | aaaagacagc | cactgcctcc | agacacagga | 1020 |
| tgccacaatc ctgggcacca |             |            |            |            | 1080 |
| gaactttctc aatagggttt | caagattttg  | aaaagtgtct | tccaattctg | atctccgtag | 1140 |
| atcctgttat gggaattaac |             |            | -          |            | 1200 |
| ctactttctt tcctggaggg | aatcagtatg  | ggcagaggga | agaggagatg | gcgattctga | 1260 |
| cctgtgtgtc tcatgtcacc | taacacctat  | ggggtggcat | gaaacttgag | ctttaaaaca | 1320 |
| caccaggggc caggcacagt |             |            |            |            | 1380 |
| gggtggatca cctgaggtca |             |            |            |            | 1440 |
| tctactaaaa atacaaaaat |             |            |            |            | 1500 |
| tgggaggctg aggcaggaga | atcgcttgaa  | cctgggaggc | agaggttgca | gtgagccgag | 1560 |
| atcaggccat tgtactctag | cctgggtgac  | aagagtgaaa | ctccatctga | aaaaaaaaa  | 1620 |
| aaaaaaa               |             |            |            |            | 1628 |
|                       |             |            |            |            |      |
| .010. 11010           |             |            |            |            |      |
| <210> 11910           |             |            |            |            |      |
| <211> 1628            |             |            |            |            |      |
| <212> DNA             |             |            |            |            |      |

<213> Homo sapiens

### <400> 11910

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| cctcatttct atctgcagcc t                            |           |            |            |            | 240          |
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| tctaaggtct tctttcagag c                            |           |            |            |            | 360          |
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| ttccaaagcc acttacacac t                            |           |            |            |            | 480          |
| ccaactttct gtcttagttc t                            |           |            |            |            | 540<br>600   |
| taaatttaat tcacagctgg g                            |           |            |            |            | 660          |
| ccaaggcagg cagatcactt g                            |           |            |            |            | 720          |
| tgagtcctag ttacccggga g                            |           |            |            |            | 780          |
| ttgcagtgag ctgagatcat g                            |           |            |            |            | 840          |
| ctcaaaaaa aaaaaaaaaa a                             |           |            |            |            | 900          |
| ttctggaggc agggaagtcc a                            | agagcatgg | tgctggcatc | tggtggggtc | cttgctgcat | 960          |
| taacccaagg cagaaagcaa g                            | gggcacaag | aaagcatgtg | caagagagct | tgcttttata | 1020         |
| acaaaggcac ttcaccaata a                            |           |            |            |            | 1080         |
| cagaatcctc atgacccgtt t                            | gctccctgc | aaaggcctca | tcaacaccac | cacagtggga | 1140         |
| tctaagtttc caacatgtga a                            |           |            |            |            | 1200         |
| agtttcctgt ggctgtttta a                            |           |            |            |            | 1260         |
| gtattctctc ttagttctgg a                            |           |            |            |            | 1320         |
| attetetgaa geetetaggg g                            |           |            |            |            | 1380         |
| cttggcttgt gactgtatca g                            |           |            |            |            | 1440         |
| ctcctttgtg tcatctcttt t                            |           |            |            |            | 1500<br>1560 |
| taattcatga tgaactcaaa a<br>taaggtcaca ttcacagttc t |           |            |            |            | 1620         |
| ctgtatcttt gtacaaaaga o                            |           | gaaacygccc | eggagecace | geecaaaceg | 1644         |
| cogeacett gracialaga t                             | ~~33      |            |            |            | 2311         |
| <210> 11918  |           |            |            |            |              |
| <210> 11918<br><211> 5261                          |           |            |            |            |              |
| <211> 5201   |           |            |            |            |              |

<sup>&</sup>lt;212> DNA <213> Homo sapiens

<sup>&</sup>lt;400> 11918

| gatatatgtt | gggtaaagga               | ggaaaacgga | agtttgatga | gcatgaagat | gggctggaag | 60           |
|------------|--------------------------|------------|------------|------------|------------|--------------|
| gcaaaatcgt | gtctccctgt               | gacggtccat | ccaaggtgtc | ttacacctta | cagcgccaga | 120          |
| ctatcttcaa | catttccctt               | atgaaactct | ataaccacag | gcccctgaca | gagcccagct | 180          |
|            | cgttttaatt               |            |            |            |            | 240          |
|            | gaggcccatg               |            |            |            |            | 300          |
|            | ggccccgccg               |            |            |            |            | 360          |
|            | cactacgccc               |            |            |            |            | 420          |
| acgatgacac | gttttgcacc               | tcccaggcca | tgcagcccac | ggctcccacc | aaactgtcac | 480          |
| ctccagccct | cttgccagaa               | aaggacagtt | tctcctctgc | cttggacgag | atcgaggagc | 540          |
|            | atctacctcc               |            |            |            |            | 600          |
|            | ggctggcacc               |            |            |            |            | 660          |
|            | ggactctctg               |            |            |            |            | 720          |
|            | cctggatgac               |            |            |            |            | 780          |
|            | ttcctcatca               |            |            |            |            | 840          |
|            | tctggctcct               |            |            |            |            | 900          |
|            | agagctggac               |            |            |            |            | 960          |
|            | atgcccaccc               |            |            |            |            | 1020         |
|            | acccttgctt               |            |            |            |            | 1080         |
|            | gctttgagca               |            |            |            |            | 1140         |
|            | agtggttcct               |            |            |            |            | 1200         |
|            | gcaatgttga               |            |            |            |            | 1260         |
|            | ctgtaaattg               |            |            |            |            | 1320         |
|            | gaagaaaact               |            |            |            |            | 1380         |
|            | gccctgtata               |            |            |            | =          | 1440         |
|            | gtgttgcatt               |            |            |            |            | 1500         |
|            | cagattctgc               |            |            |            |            | 1560         |
|            | tagctatttt               |            |            |            |            | 1620         |
|            | cttgtacttt               |            |            |            |            | 1680         |
|            | aaatcaatct               |            |            |            |            | 1740         |
|            | taaacacaca               |            |            |            |            | 1800         |
|            | cactgacccc               |            |            |            |            | 1860         |
|            | tgctcatcaa               |            |            |            |            | 1920         |
|            | tgatggttct               |            |            |            |            | 1980         |
|            | tttatgccaa               |            |            |            |            | 2040         |
|            | tttccttttt               |            |            |            |            | 2100         |
|            | atccgaaaag               |            |            |            |            | 2160         |
|            | aaagaagaaa               |            |            |            |            | 2220         |
|            | ctttccctag               |            |            |            |            | 2280         |
|            | cagtgagctt               |            |            |            |            | 2340         |
|            | gaacctggag               |            |            |            |            | 2400<br>2460 |
|            | tacttcacac<br>tttccctcct |            |            |            |            | 2520         |
|            | gtagcttttt               |            |            |            |            | 2580         |
|            | tgttgccgaa               |            |            |            |            | 2640         |
|            | ttagctgttg               |            |            |            |            | 2700         |
|            | cttttatatt               |            |            |            |            | 2760         |
|            | gttgttggtc               |            |            |            |            | 2820         |
|            | attgggtctt               | _          | _          | _          | _          | 2880         |
|            | atagttagtt               |            |            |            |            | 2940         |
|            | tgctcatcta               |            |            |            |            | 3000         |
|            | ctttttcccc               | -          |            |            | _          | 3060         |
|            | aaactgatca               |            |            |            |            | 3120         |
|            | ctacaggtgt               |            |            |            |            | 3180         |
| -          | agtagatgct               | _          |            |            |            | 3240         |
|            | aacaagtctg               |            |            | _          | _          | 3300         |
|            | gctgcacaca               |            |            |            |            | 3360         |
|            | gggtaaaaca               | _          |            | -          |            | 3420         |
|            | acttttgttg               |            |            |            |            | 3480         |
|            | aaataagcac               |            |            |            |            | 3540         |
|            | ctgggcttca               |            |            |            |            | 3600         |
|            | acaccgttgc               |            |            |            |            | 3660         |
|            |                          |            |            |            |            |              |

| gaaaattagc            | agcccatttt | cagaaagatc | aaaatgatct | agggttctaa | ttgcttttgc | 3720 |
|-----------------------|------------|------------|------------|------------|------------|------|
|                       |            | tgtcccaaca |            |            |            | 3780 |
|                       |            | gatgtgcttc |            |            |            | 3840 |
|                       |            | caggcagctt |            |            |            | 3900 |
|                       |            | gacactgatg |            |            |            | 3960 |
|                       |            | agtgagtttt |            |            |            | 4020 |
|                       |            | ttactgtgga |            |            |            | 4080 |
|                       |            | tctcttgtag |            |            |            | 4140 |
| agccaggccc            | ccaggtcttc | tcattgtatg | cacagtccgc | attcattttt | actcttctct | 4200 |
| aatatgggtc            | tatttgaaat | atgcaaaagg | tatgaggaat | gttttaatac | ctccaaattt | 4260 |
| ttaagaaaag            | catcaaaggg | ttgatatttt | ttaaagtttt | tttagtagca | ctttctctgg | 4320 |
| atgacagaag            | gagcaaccac | atgggcaccc | ttgttcatac | caaagggtga | gcagtggcca | 4380 |
|                       |            | gagtgtcttt |            |            |            | 4440 |
|                       |            | tgaggtcaat |            |            |            | 4500 |
| aaagagccaa            | agtatcaact | tacagatcgt | ttttaaagct | taaatttatg | aaccaccttt | 4560 |
| gtggtaaaca            | atgaattatg | aataccgcag | ggcagccttc | ttaaatgaca | aatgtaaaaa | 4620 |
|                       |            | cttcgtgcag |            |            |            | 4680 |
|                       |            | aattggacct |            |            |            | 4740 |
|                       |            | tgtaaatggt |            |            |            | 4800 |
|                       |            | tgcttatgta |            |            |            | 4860 |
|                       |            | agccaggatc |            |            |            | 4920 |
|                       |            | aacaagtttt |            |            |            | 4980 |
|                       |            | atgtacatag |            |            |            | 5040 |
|                       |            | tataaccttt |            |            |            | 5100 |
|                       |            | acatcggaac |            |            |            | 5160 |
| gctgtaatct            | aaacaattgg | acagattaaa | tgtacatgga | aatgagcagt | cttacttttg | 5220 |
| tagttttata            | ttatacaata | aacagttaaa | agatgagaga | g          |            | 5261 |
|                       |            |            |            |            |            |      |
| <210> 1191            | ۵          |            |            |            |            |      |
| <210> 1191 <211> 2054 | 9          | •          |            |            |            |      |
| <zii> ZU54</zii>      |            |            |            |            |            |      |

<212> DNA

<213> Homo sapiens

<400> 11919 60 gtgcagctgg acgctgacca cgactaccca ccgggctgct catcgccttc agtgcctgca 120 ccacagtgct ggtggctgtg cacctgtttg cgctcatgat cagcacctgc atcctgccca 180 acategagge ggtgageaac gtgeacaate teaacteggt caaggagtee eeceatgage 240 gcatgcaccg ccacatcgag ctggcctggg ccttctccac cgtcatcggc acgctgctct 300 tcctagctga ggtggtgctg ctctgctggg tcaagttctt gcccctcaag aagcagccag 360 gccagccaag gccaccagc aagccccccg ccagtggcgc agcagccaac gtcagcacca 420 gcggcatcac cccgggccag gcagctgcca tcgcctcgac caccatcatg gtgcccttcg 480 gcctgatctt tatcgtcttc gccgtccact tctaccgctc actggttagc cataagaccg 540 accgacagtt ccaggagctc aacgagctgg cggagtttgc ccgcttacag gaccagctgg 600 accacagagg ggaccacccc ctgacgcccg gcagccacta tgcctaggcc catgtggtct 660 gggcccttcc agtgctttgg ccttacgccc ttccccttga ccttgtcctg ccccagcctc 720 acggacagcc tgcgcagggg gctgggcttc agcaaggggc agagcgtgga gggaagagga 780 tttttataag agaaatttct gcactttgaa actgtcctct aagagaataa gcatttcctg 840 ttcttccagc tccaggtcca cctcctgttg ggaggcggtg gggggccaaa gtggggccac 900 acactcgctg tgtcccctct cctcccctgt gccagtgcca cctgggtgcc tcctcctgtc ctgtccgtct caacctccct cccgtccagc attgagtgtg tacatgtgtg tgtgacacat 960 1020 aaatatactc ataaggacac ctccttcccg tgtcttgtat ttgttgggcc tgggctactg ctcaccctgg ttaggtgagc ctctaggaaa acttaaaaca aattttaagc caggtatggt 1080 1140 ggcacatacc tgtggtctca gctattcagg aggccaaggc aggaggatct cttgagccca ggagtttgag accccatctc aaacaaaaaa tacaaaaatt agccagccac ggcgcctgca 1200 1260 cttccagctc ctttgagaga ctgaggcagg aagattgcct aagcccagga ggccaagtct 1320 gcagtaagct atggtaacac cactgcactc caacctgggc aacagaggga gactctgtct ctaaaaaaat agaaaaattt gccctgcatg gtggctcacg cctgtaatcc tagccctttg 1380 1440 gaaggccaag gcgggcagat cacttgaggt cgggagttcg agaccagcct gaccaacatg 1500 gagaaacccc atctgtacta aaaatacaaa attagctggg ttttggtggcg catgcttgta atcccagcta ctcgggaggc tgaggcagga gaatcgcttg aacccaggag gcggaggttg 1560

| caaaaaaaaa<br>gttgcaggaa<br>ttttttttt<br>tctgtaaaat<br>tacagggttg<br>atcttgtttt | agaaaaaaaa<br>tagtgtctat<br>ttttaaatag<br>cactgtgagc<br>cgttcctgtg<br>atgtgtattt<br>ttaccgttga | attcaacatt<br>ctgaaataca<br>agcctcactc<br>actgacttag<br>agctttggtc<br>ctgtttaaag | ttatttgag<br>tattcagtct<br>tgtcacccag<br>cacatactgg<br>gtgatatttt<br>attcatatat | acaacagtga<br>aaatttcaaa<br>tttctttaga<br>gctggagtgc<br>accgttgctc<br>catcagctga<br>atatgtgtat<br>gaacacatgc | cctacaaaaa<br>agtcttttt<br>agtggcgcga<br>ctaggagaaa<br>tcaatatgta<br>atatatatat | 1620<br>1680<br>1740<br>1800<br>1860<br>1920<br>1980<br>2040<br>2054 |
|---|--|--|---|--|---|--|
| <210> 11920<br><211> 285  | )  |  |   |  |   |  |
| <212> DNA<br><213> Homo   | sapiens  |  |   |  |   |  |
| <400> 11920   | n  |  |   |  |   |  |
|   |  | agacggagtt   | tcactcttgt  | tgtccaggct   | ggagtgcaat  | 60   |
| ggtgcgatct  | cggctcacag   | caatctccac   | ctcccgggtt  | caagccattc   | tcctgcctca  | 120  |
| gcctcctgag  | tagctgggat   | tacaggcata   | cgccaccacg  | cctagctaat   | tttgtatttt  | 180  |
| tagtagagat  | ggggtttctc   | catgttggtc   | aggctggtct  | cgaactccag   | acctcaggtg  | 240  |
| atccacccac  | ctcggcctcc   | caaagtgctg   | ggattatagg  | tgtga  |   | 285  |
| <210> 1192<br><211> 1403<br><212> DNA<br><213> Homo                             | 5<br>sapiens   |  |   |  |   |  |
| <400> 1192  | 1  | gattactaca   | tagacaccta  | ggcatgggac   | ttataaaaaa  | 60   |
| gggcccacc   | cagacaage  | agtagatagt   | gagtagtatc  | gcccaagtcc   | ctgagggtct  | 120  |
| caagggagga  | ctcactgage   | tcgactctct   | ccctgcaggt  | tatgattcca   | tgggctatga  | 180  |
| aatgtctaag  | cctgacctcc   | gggctgaact   | ggaagctgat  | ctgaagctga   | tctgtgatgg  | 240  |
| caaaaaggac  | aaatttgtgg   | ttctaaggca   | gcaagtgcag  | aaatacaagc   | aggttttcat  | 300  |
| tgaagcggtg  | gctaaagcaa   | agaagtaagt   | ccttaaaaga  | . aatacagagg   | ggtctcacta  | 360  |
| tgttgcccag  | gctggtcttg   | aactcctggc   | ctcaagagat  | cttcccacct   | cagcctccca  | 420  |
| aagtgtgggg  | attacaggcg   | tgagccaccg   | catctgggcc  | agtcagagtt   | tataaccctg  | 480<br>540   |
| ccagattcat  | cctcaccagt   | ggcctcctgg   | cctggaggtt  | ttccacatac   | tatagaaaga  | 600  |
| tggactttct  | tctctgggtt   | cttttacaac   | ccccataga   | gctttgtcag<br>ctttagaaat   | accattctct  | 660  |
| gtaatcggaa  | . cagtctcctt   | tttctcct   | taattacato  | acacattaat   | tatcttgagt  | 720  |
| tagggaagaa  | agtetttaa  | atcagtaaac   | ccaagtgctg  | gagtgtgatc   | catttqtttt  | 780  |
| ctggagcatt  | tagaggtgga   | tatttagcaa   | gcagcatgtg  | tgtattttgt   | tagaaatgat  | 840  |
| gtgttttcta  | cctgtgatat   | tatgatttat   | aataagatat  | atatatttgg   | acttcatttt  | 900  |
| ctgataccct  | tggaatttt  | : taagtgctgt   | gtctgttgta  | tacaaatgag   | atgactagtg  | 960  |
| gccaagggct  | cctgggtagc   | : cttgggatcg   | gtctggttgt  | : cagggaacca   | accctgtgat  | 1020   |
| tagaaggttg  | ggactttgag   | , tcccacccct   | acctcaggaa  | ı gagcagaggg   | gctggaggtt  | 1080<br>1140   |
| gagttgatca  | cacgtggcca   | gtgatttgtc   | aatcatgcct  | . aagtaataaa   | tcctccataa  | 1200   |
| aatccccaaa  | caagggtcag   | gcacggtggc   | tcacgcctgt  | aatcccagca   | ctttgggagg  | 1260   |
| ccgaggcggg  | tagatcacaa   | ggtcaggagt   | tcaagaccag  | taggeeaac  | acagtgaaac  | 1320   |
| cccttctct   | gotaaaaaa<br>gotaaaataa  | . tagaaaaaaa   | acacaaaaa<br>aaacaaaaaa   | a actocttoaa   | tggtggtgcg<br>cccggaaggt  | 1380   |
| ggaggttgg   | atgagecaec   | attgccccac   | tgcagtccag  | g cttgggcaac   | : agagtgagac  | 1440   |
| ttcttcaaca  | a acaacaaaaa   | a caaatcaaac   | aattgggttt  | ggggcacato   | caaatagcta  | 1500   |
| aacaggtaaa  | a gactcctgga   | a gggtgggtgt   | : ttgggagagg  | g gcatggaago   | taccccttcc  | 1560   |
| ccacatccct  | tgccctgtgc   | attgcttcca   | ı tctgggtatt  | cacctggate   | ctttgtaatt  | 1620   |
| aacgggtaag  | g cataagtaaa   | a gtgtttccct   | gagctctgtg  | g agccactcta   | ı ttgagaatca  | 1680   |
| aaccaaggag  | g ggggtctgag   | g gaaccccagt   | ttatagccag  | g tcagtcagaa   | gcacaggtca  | 1740   |
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|            | aaagatggct |            |            |            |            | 17940 |
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| taactgtttg | gctagttagg | tcctagatgt | ccagctgtca | ttatgaaatg | cagatggtac | 18000 |
| ggtgagggga | cgtccacctt | tttcagcatg | atgtgtgcat | aggtgagaca | ctgctgctgc | 18060 |
| acaggttggg | gaccacacac | ttatggctga | caggagatca | aagaagatgt | tttaattgac | 18120 |
|            | gggtggcttg |            |            |            |            | 18180 |
| ggctgagcat | gctttatgaa | ggcttattag | aagaattggg | atatttatga | taaataattt | 18240 |
|            | cagacatcac |            |            |            |            | 18300 |
|            | gttttaatga |            |            |            |            | 18360 |
|            | gtgcagggtc |            |            |            |            | 18420 |
|            | tcatggccca |            |            |            |            | 18480 |
|            | aagagagggt |            |            |            |            | 18540 |
|            | cagcggttgg |            |            |            |            | 18600 |
|            | gttgttactc |            |            |            |            | 18660 |
| catcgttcgt | tctggtggaa | gtgtaggtgc | aggacgttct | cgtcatctgg | ttgaatcttg | 18720 |
|            | cctctgagaa |            |            |            |            | 18780 |
|            | tcttccattg |            |            |            |            | 18840 |
|            | aaaagttctt |            |            |            |            | 18900 |
|            | aaataacatc |            |            |            |            | 18960 |
|            | ttctttgcat |            |            |            |            | 19020 |
|            | gatgccgggg |            |            |            |            | 19080 |
|            | tgtgaatgca |            |            |            |            | 19140 |
|            | gagagtccca |            |            |            |            | 19200 |
|            | cctacctgtg |            |            |            |            | 19260 |
|            | tctctgtgca |            |            |            |            | 19320 |
|            | agggcgggca |            |            |            |            | 19380 |
|            | acctcccacc |            |            |            |            | 19440 |
|            | agctcctccc |            |            |            |            | 19500 |
|            | tctccagtca |            |            |            |            | 19560 |
|            | tggcaggtgg |            |            |            |            | 19620 |
|            | cgtggaaagc |            |            |            |            | 19680 |
|            | ggcacttctc |            |            |            |            | 19740 |
|            | ggtttgggaa |            |            |            |            | 19800 |
|            | cccatcctgc |            |            |            |            | 19860 |
|            | ggtgggagga |            |            |            |            | 19920 |
|            | ggacggaagg |            |            |            |            | 19980 |
|            | tacctgtctg |            |            |            |            | 20040 |
|            | acagcgggca |            |            |            |            | 20100 |
|            | tcccggagct |            |            |            |            | 20160 |
|            | cgtctctctt |            |            |            |            | 20220 |
|            | ctgtgctgtc |            |            |            |            | 20280 |
|            | ggaggaaaag |            |            |            |            | 20340 |
|            | gatcgggtgg |            |            |            |            | 20400 |
|            | gacatttcat |            |            |            |            | 20460 |
|            | ccagagcatc |            |            |            |            | 20520 |
|            | tagcttcacg |            |            |            |            | 20580 |
|            | tactattaaa |            |            |            |            | 20640 |
|            | catttcttt  |            |            |            |            | 20700 |
|            | aggagccggc |            |            |            |            | 20760 |
|            | accgaaatcg |            |            |            |            | 20820 |
|            | gaacagaacc |            |            |            |            | 20880 |
|            | ccggcctctt |            |            |            |            | 20940 |
|            | accacacgtc |            |            |            |            | 21000 |
|            | cctgtgactc |            |            |            |            | 21060 |
|            | ttagaaacag |            |            |            |            | 21120 |
|            | tgtgaaaaaa |            |            |            |            | 21120 |
|            | tgttgacaac |            |            |            |            | 21240 |
|            | tccggatggc |            |            |            |            | 21300 |
|            | ttgtgtgagt |            |            |            |            | 21360 |
|            | aaaatgcgtg |            |            |            |            | 21420 |
|            | accatttcca |            |            |            |            | 21420 |
|            | ggtctctctt |            |            |            |            | 21540 |
| cacacticat | gguuuuuu   | taattyacca | uuuccccca  | coccocca   | adededdage | 27340 |



<210> 11925 <211> 3975 <212> DNA

<213> Homo sapiens

<400> 11925

60 gatcctgaaa tggaaaatga agaacaacca tcctctgaaa atgattctca gaatcagagt ggtgaacaga tttcatcaag ttctcaggag gttgatttgg ttgatcaaga gtcttctgag 120 gaaaattctc taaattctca cccagaatca ttatctctag cagatatgga caatgctgca 180 agcatttccc cttctgaaca gacttctaat cccacagaaa accatgagac tacaaatctt 240 aatggtgaat gtacagattt agataaccag cttcaagaac aatcagaaac tgaggaagat 300 tccaatccta atgttagctg gggtaaaaag gtccagccta tagactccat attagcagac 360 tggaatgaag atatagaagc atttgaaatg atggagaagg atgagctatg acttgctaaa 420 caatctgttg gtaggtattt aaaaagaaaa ggtaaactgt gtgtggttaa tagacatcct 480 aatactaagc aggctttcta atgggaggct ttaagtatgg tgatgaacaa ccacgttctg 540 actggcgtag ttatcgtagg aatctggagc atgctgtgtt agaattgacc ttgtttaaaa 600 ctgtcccatc aaaaatggaa atccacagtt cccccttcaa atgcagcact gcaccaccct 660 720 gcaacacctc aggccaggga aagattactg agcattcctg cgaaccagat ttctgttgtc 780 tctggataga caagaaacaa aattcattta gtagtggagt ggggaatagg agtttggata gccttctaat taaaggaagc tcgcctttct tggttttggg ggttagaggc tcttttggga 840 agatgcatcc gagtattgtg gcattctgat tatgctgcct tcacaaaaca ctctaagtga 900 cctaagtggt tatgaagcaa atgcatttat ggtgaaaaca gtctttgctc attgctttct 960 cttgtttcat ttagtgacaa atgatcaaga tgacttgatt ttttttcctt cttaacaatg 1020 tcttttttat ttaaaccaaa ggtgaagcca gtgtactttc tcagtgagtt ctctgcataa 1080 agactaatca gtgggaccag gtaaaaaggt catataatac attgtggaga ttgcttactt 1140 aatacttctg aaaaatggag taagggagaa actgtaatgt tgcaatatga acctcccatt 1200 gggccttcca tagggaaagc tgtgactact ctgaaatgga acctagcatt atatccttgt 1260 agggtagatt ataaatcatt tccagttcat ttctcttaga ggtgattacc tctagccatc 1320 agcettacte cateceatgt ttggtatgea atttgageea caaggetegt ategeeaaca 1380 gctatataca ttttgttcca tttttctgtc ttacagagcc atgatagaac tgtggttagt 1440 gagttaaaat teetggagta actactgttt tteteetttg aaacttaggt ttetaaagtt 1500 gcacctaagg aatctgtcac attttctgtt gaatcatggt ttttgttttt gtttttaaca 1560 gatattcctt ctgatacgga cttgaaaatt agtgtatggt gacctgtgtt taaaaaaaaa 1620 agtacaatac aactacatat agctatatag cttaatgaga cttccacccc cccccttttt 1680 ttttttggtt tgttgttgtt gtagtagtct ggtgctggcc acatttaagt cttaaaaatt 1740 tttaaatttt gttgttgatg tttgtagaca gccctgttgt tgaaatcatg gctttattca 1800 ttttatttat tttttaaact tgcctgaatt tgttctaaag gaatatttaa gagacataat 1860 1920 tttcttctct ttaccataac attacacaaa actttttcct aaaacacggt tgtgaggtac tgatgaggtg taagtggagc tgttaaaaac agcagtgctg tattgcagtt atgtatattc 1980 gtgtacagta tgtttagatc ccaggtaaac atattctttt ctgagaggat aaatacctgc 2040

| attcagatat tcc | aggtaaa tataa | attgag tcac | ggagta gt    | taaatctga | tggagaattc | 2100 |
|----------------|---------------|-------------|--------------|-----------|------------|------|
| actttgggga ggg |               |             |              |           |            | 2160 |
| aaaccaaaat gga |               |             |              |           |            | 2220 |
| tataatatat aca | _             |             |              |           |            | 2280 |
| ctgccaaaat agt |               |             |              |           |            | 2340 |
| gagaaaatga gca |               | _           | -            |           |            | 2400 |
| tgattttgta ttt |               |             |              |           |            | 2460 |
| aaacaaccta att |               |             |              |           | _          | 2520 |
| attggaaaag cca |               |             |              |           | 5 5 5      | 2580 |
| ttcattgacg ctt |               |             |              |           |            | 2640 |
| aaaaggaaaa aat |               | _           | _            | _         | 9          | 2700 |
| cctagttaag aaa |               |             |              | _         |            | 2760 |
| tctacattca ttt |               |             |              |           |            | 2820 |
| ttccaaaggc att | -             | _           |              |           |            | 2880 |
| agacatttta gta |               | _           | -            | _         |            | 2940 |
| atctggtcta cct | -             |             | _            | _         | •          | 3000 |
| gccataaaat tgt | -             |             | <del>-</del> |           | <b>-</b>   | 3060 |
| agctgaaatc ctt |               | _           | -            |           |            | 3120 |
| aaacttaacc tgt |               |             |              |           | •          | 3180 |
| tcattgaaat gat |               |             |              | _         | -          | 3240 |
| aattgtaatt tac | -             | -           |              | _         | 5 5 5      | 3300 |
| cttcttaaat tgc | -             |             | _            |           |            | 3360 |
| tggcattata cgt |               |             |              |           |            | 3420 |
| ctgattttaa ctt |               | •           | _            | -         | •          | 3480 |
| atcacacaac ctt | _             |             |              |           |            | 3540 |
| attcatcatg aag | =             | =           | -            |           | •          | 3600 |
| ggtagaattt agt |               | _           | _            | _         | 0 0000     | 3660 |
| agaaaaaaaa aac |               |             |              |           |            | 3720 |
| ttaaaagccc aat |               | -           | -            | -         | -          | 3780 |
| gtactaacag gtg |               |             |              |           |            | 3840 |
| acaatatttc taa | <del>-</del>  |             |              |           | 9          | 3900 |
| tcctgtatat aat |               |             | _            |           | •          | 3960 |
| taaatattcc agt | -             |             | 3            |           | -          | 3975 |
|                |               |             |              |           |            |      |
|                |               |             |              |           |            |      |
| <210> 11926    |               |             |              |           |            |      |
| <211> 304      |               |             |              |           |            |      |
| <212> DNA      |               |             |              |           |            |      |
| <213> Homo sap | oiens         |             |              |           |            |      |
| -              |               |             |              |           |            |      |
| <400> 11926    |               |             |              |           |            |      |
| gcacccatgg att | caaccaa ctgt  | ggatag gaaa | atattca aç   | gaagaaaaa | agcatctgta | 60   |
| ttgaacatac aga | gattttt tttc  | ttgtca ttat | tctcca aa    | acaatacag | tataccaatg | 120  |
| atttgcataa cat | ttacgtt gtat  | taggta ttat | aaagta at    | tcaagagat | gatttaaagt | 180  |
| acatgggagg atg | tgtgtca gtta  | tatgca aata | actgtgt ca   | attttacat | aagggacttg | 240  |
| agcatccaaa atc |               |             |              |           |            | 300  |
| tccg           |               |             |              |           |            | 304  |
|                |               |             |              |           |            |      |
|                |               |             |              |           |            |      |
| <210> 11927    |               |             |              |           |            |      |
| <211> 2217     |               |             |              |           |            |      |
| <212> DNA      |               |             |              |           |            |      |
| <213> Homo sap | oiens         |             |              |           |            |      |
|                |               |             |              |           |            |      |
| <400> 11927    |               |             |              |           |            |      |
| gcggccgcag tga |               |             |              |           |            | 60   |
| cccgtgcagg ccc |               |             |              |           |            | 120  |
| cccgctggcc aaa |               |             |              |           |            | 180  |
| gttcttcgtg ctg |               |             |              |           |            | 240  |
| tgcggccggg ggg |               |             |              |           |            | 300  |
| gtgctgattc ctg | gcgcgtc tgca  | cccagg atgg | gagttcg to   | gtccgaggt | gcagaggaag | 360  |

| gtgcacgagg | cccgagccgg | ggttctggcg | gagcgcaagg | ccctgaagga | cgccgccgag | 420  |
|------------|------------|------------|------------|------------|------------|------|
| caccgcgagc | tgatggcctg | gaaccaggcg | gagaaccggc | ggctgcacga | gctgcggtgc | 480  |
| atagggggg  | aggcggggcg | gggcggcgcg | gcctggccgg | cctgggagaa | gcccgggccc | 540  |
| cgctcagcct | cggccctttg | accctcacag | gatagcgagg | ctgcggcagg | aggagcggga | 600  |
| gcaggagcag | cggcaggcgt | tggagcaggc | ccgcaaggcc | gaagaggtgc | aggcctgggc | 660  |
| gcagcgcaag | gagcgggaag | tgctgcagct | gcaggtgggc | aacgtctccg | gagggtggga | 720  |
| ctccagccgg | ggacgcggct | tgcggggcac | tgggaattct | gggcaccgcg | acgcgggcgc | 780  |
| tggctatgtg | cagagactta | cagttggcag | gtccggattt | ggagaggaga | gtgccagtca | 840  |
| ggcgcaaaga | cccggaggtg | agcggagtaa | ttggacagtg | ttcaggtacc | tagcaggtct | 900  |
| gtgggaggga | ccctgcgttc | cacaaagagg | ttgtattttg | cataacaggt | gatgaagcca | 960  |
| tgaagggtta | agtatttcag | gctaggatta | gcaggtgtgc | gacttaaaag | cagggagacc | 1020 |
| acttaggagt | aatgcagtga | gaatggatga | ggcttgattt | aaagtataga | agggtggctg | 1080 |
| ggagcggtgg | ttcacgcctg | taatcccagt | actatgggag | gccgaagcgg | gcgtatcact | 1140 |
| tgaggtcggg | agttcgagtc | cagcctggcc | aagccccgtc | tctcctaaaa | atacaaaaat | 1200 |
| tagccgggcg | tggtgtgcgc | cagtaatcgc | agctactcgg | gaggctgagg | catgagaatc | 1260 |
| gcttgaaccc | aggaggcaga | ggttgcagtg | agccgagatg | gcgccactgc | actccatcct | 1320 |
| gggcgacagt | gagactccgt | ctcaaaataa | ataaataaat | aaataaataa | agtaatgggg | 1380 |
| ggaaggatga | gttagagtga | ttcagagggg | accactgagg | gacggatttc | acctaccagg | 1440 |
| acgtgagatt | ttcatagctg | gcactcgggg | ctatggctga | agtgtctgag | aaaagaggaa | 1500 |
| catagaaaag | caacctgata | tcactccact | gggaggccag | aggggctctc | aaataggacc | 1560 |
| tgggttccag | gcatgcttcc | ccagggagag | caggagctgc | tttctcagtg | gggtgagagg | 1620 |
| ccagcaggct | gggtgggctg | gctggcatgt | gcccaaggct | cctgttcagc | tgggcttttc | 1680 |
| tctcccgata | ggaagaggtg | aaaaacttca | tcacccgaga | gaacctggag | gcacgggtgg | 1740 |
| aagcagcatt | ggactcccgg | aagaactaca | actgggccat | caccagagag | gggctggtgg | 1800 |
| tcaggccaca | acgcagggac | tcctaggggc | ccagtaagga | cagtgcccgc | cagggaccat | 1860 |
| gtatgtatca | tggcggaaga | gttggccctg | acctggaata | aagcagttgg | tgttgcttat | 1920 |
| gaggaaggtt | cagccttatc | cagcacagcc | ttcacgtttt | gccctctgct | gtcaccactt | 1980 |
| ggtcagaaac | ttccaaacgc | agtgccctgt | tctgccggtg | tgtacagcct | cagcgcacca | 2040 |
| ggagacccta | gagtggtttc | catctcacag | agaatcagac | agggccacag | cccctcagg  | 2100 |
| cagccaggtc | atctgagtat | cattaagagt | agtgatggga | agattacagt | ctgagggcca | 2160 |
| aacgtgcctg | cttcctgttt | ttgtaaataa | agttttgttg | gaacacagcc | acaccca    | 2217 |
|            |            |            |            |            |            |      |

<210> 11928 <211> 2216 <212> DNA

<213> Homo sapiens

#### <400> 11928

60 gcggccgcag tgaggagact cggccatgct acgcgcgctg agccgcctgg gcgcggggac cccgtgcagg ccccgggccc ctctggtgct gccagcgcgc ggccgcaaga cccgccacga 120 cccgctggcc aaatccaaga tcgagcgagt gaacatgccg cccgcggtgg accctgcgga 180 240 gttcttcgtg ctgatggagc gttaccagca ctaccgccag accgtgcgcg ccctcaggtg 300 tgcggccggg gggaggtggc cgcccgcgcg cgctggtgac ggtgggagtg ggcggagagg gtgctgattc ctggcgcgtc tgcacccagg atggagttcg tgtccgaggt gcagaggaag 360 420 gtgcacgagg cccgagccgg ggttctggcg gagcgcaagg ccctgaagga cgccgccgag caccgcgagc tgatggcctg gaaccaggcg gagaaccggc ggctgcacga gctgcggtgc 480 540 gtggggcggg aggcgggcg gggcggcgcg gcctggccgg cctgggagaa gcccgggccc 600 cgctcagcct cggccctttg accctcacag gatagcgagg ctgcggcagg aggagcggga 660 gcaggagcag cggcaggcgt tggagcaggc ccgcaaggcc gaagaggtgc aggcctgggc 720 gcagcgcaag gagcgggaag tgctgcagct gcaggtgggc aacgtctccg gagggtggga 780 ctccagcggg gacgcggctt gcggggcact gggaattctg ggcaccgcga cgcgggcgct 840 gcgcaaagac ccggaggtga gcggagtaat tggacagtgt tcaggtacct agcaggtctg 900 tgggagggac cctgcgttcc acaaagaggt tgtattttgc ataacaggtg atgaagccat 960 1020 gaagggttaa gtatttcagg ctaggattag caggtgtgcg acttaaaagc agggagacca 1080 cttaggagta atgcagtgag aatggatgag gcttgattta aagtatagaa gggtggctgg 1140 gageggtggt teaegeetgt aateecagta etatgggagg eegaageggg egtateaett 1200 gaggtcggga gttcgagtcc agcctggcca agccccgtct ctcctaaaaa tacaaaaatt 1260 agccgggcgt ggtgtgcgcc agtaatcgca gctactcggg aggctgaggc atgagaatcg cttgaaccca ggaggcagag gttgcagtga gccgagatgg cgccactgca ctccatcctg 1320

| ggcgacagtg agactccgtc tcaa                              | aataaa taaataaata   | aataaataaa g | gtaatggggg  | 1380         |
|---|---------------------|--------------|-------------|--------------|
| gaaggatgag ttagagtgat tcag                              | gagggga ccactgaggg  | acggatttca c | cctaccagga  | 1440<br>1500 |
| cgtgagattt tcatagctgg cact                              | cggggc tatggctgaa   | gracetetea a | aadaggaac   | 1560         |
| gtggaaaagc aacctgatat cact<br>gggttccagg catgcttccc cag | rgagage aggagetget  | trotcagtag o | gataagaagac | 1620         |
| cagcaggetg ggtgggetgg etgg                              | rcatoto cccaagotto  | ctqttcaqct q | gggcttttct  | 1680         |
| ctcccgatag gaagaggtga aaaa                              | acttcat cacccgagag  | aacctggagg ( | cacgggtgga  | 1740         |
| agcagcattg gactcccgga agaa                              | actacaa ctgggccatc  | accagagagg g | ggctggtggt  | 1800         |
| caggccacaa cgcagggact ccta                              | aggggcc cagtaaggac  | agtgcccgcc a | agggaccatg  | 1860         |
| tatgtatcat ggcggaagag ttgg                              | gccctga cctggaataa  | agcagttggt g | gttgcttatg  | 1920<br>1980 |
| aggaaggttc agccttatcc agca                              | acageet teaegttttg  | ccctctgctg t | ecaccactig  | 2040         |
| gtcagaaact tccaaacgca gtgc<br>gagaccctag agtggtttcc atc | tracara raatraraca  | gradageere a | ccctcaggc   | 2100         |
| agccaggtca totgagtate atta                              | aagagta gtgatgggaa  | gattacagtc ( | tgagggccaa  | 2160         |
| acgtgcctgc ttcctgtttt tgta                              | aaataaa gttttgttgg  | aacacagcca   | caccca      | 2216         |
|   | •                   |              |             |              |
| <210> 11929   |                     |              |             |              |
| <211> 1334  | •                   |              |             |              |
| <212> DNA   |                     |              |             |              |
| <213> Homo sapiens                                      |                     |              |             |              |
| <400> 11929   |                     |              |             |              |
| gccatggcca gctccaggcg agg                               | cctcctg ctcctgctgc  | tgctgactgc ( | ccaccttgga  | 60           |
| ccctcagagg ctcagcactg gtc                               | ccatggc tggtaccctg  | gaggaaagcg   | agccctcagc  | 120<br>180   |
| tcagcccagg atccccagaa tgc<br>ggaggaagaa agtgatggcc ggg  | cettagg ecceaggig   | ggtgteteee   | atcaaaataa  | 240          |
| ggaggaagaa agtgatggee ggg<br>ggaggacage atcagtteee tte  | taaggaa gggccctgga  | cactgcagca   | ggcagcccag  | 300          |
| tccagactgc ccatggcctc cca                               | agtgatg ccctggctcc  | cctggacgac   | agcatgccct  | 360          |
| gggagggcag gaccacggcc cag                               | tggtccc ttcacaggaa  | gcgacacctg   | gcacggacac  | 420          |
| tgctggtgag tagggtgaga ggt                               | ccccagc atcaagacca  | gccactggtc   | atcagaggcc  | 480          |
| attgtggctt agggttgggt gct                               | gggaggg tggggagaat  | gaaacaccac   | tgagatgccc  | 540          |
| cctgccacag caccccagc cat                                | ttctcag tgcccctact  | gcacacagca   | gggtgctgtc  | 600<br>660   |
| tgctatcctt cctatttccc agg                               | aggattc tagacaattt  | taagagagta   | ataaccataa  | 720          |
| accaaagtca ctagtagact aga gatcccacag gcatcctgac aag     | ccaatga ctgtcttgag  | gtggacageg   | cccaggccag  | 780          |
| tggaaagagg tgagggatgc aac                               | ctcactc aaacagacaa  | cagggccaag   | aggaccaggt  | 840          |
| ggtgactgac atgtgcacta gga                               | acatctc agggactgca  | gagctcccca   | agaccatagc  | 900          |
| agaagacagg cgtggggaaa tgg                               | tttgcta ctgttttgca  | aatcaaacat   | ttacagtgca  | 960          |
| tcaggagagc ccggtaacta aag                               | aagaaag tggttagttc  | ctatgaggca   | atgtcttacc  | 1020         |
| gcctgatttg tgtgtatgtg ctg                               |                     |              |             | 1080<br>1140 |
| agggcatgcc caagggagct gga                               | gatecee acactagetg  | gateeteagg   | agaggggaga  | 1200         |
| aggcgggggg cgtcctgctg tgg<br>gaaccaggaa gatggcagct cgg  | reacttae dadaccadta | tcctgagaca   | tgaccgccac  | 1260         |
| ctctcctcc gcagaccgca gcc                                | cgagage cccqccccqc  | cccgccatcc   | tccaataaag  | 1320         |
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| cctttaatca cagctactgg                      |            |            |            |            | 1140       |
|  | ggaggctgta | ggcaggcaga | accecegaa  | cccgggaggc | 1142       |
| tg   |            |            |            |            |            |
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| <211> 9391                                 |            |            |            |            |            |
| <212> DNA                                  |            |            |            |            |            |
| <213> Homo sapiens                         |            |            |            |            |            |
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| tgtttttaag cagaagattc                      |            |            |            |            | 60         |
| aaacagaatg gaattacttt                      |            |            |            |            | 120        |
| catcttcttg gcctgtcatg                      |            |            |            |            | 180        |
| aagagtttgg aaattactga                      |            |            |            |            | 240        |
| ggggcccaga gagttagata                      |            |            |            |            | 300        |
| cccaggccag caggcctttc                      |            |            |            |            | 360        |
| tggccaggtg cagtggctta                      |            |            |            |            | 420        |
| tcacctgagg tcaggagttt                      |            |            |            |            | 480        |
| aaaaatacaa aaaaaggctg                      |            |            |            |            | 540        |
| gccaaagcag acggatcacc                      |            |            |            |            | 600        |
| aaccttgtct ctactaaaat                      |            |            |            |            | 660        |
| aaggtcagga gatggagacc                      |            |            |            |            | 720<br>780 |
| acaaaaatt agccaggcgt                       |            |            |            |            | 840        |
| ggcaggagaa tggcgtgaac                      |            |            |            |            | 900        |
| gcactccagc ctgggtgaca                      |            |            |            |            | 960        |
| ggtagcaggc gcctgtaatc                      |            |            |            |            | 1020       |
| ccagcaggcg gaggttgcag                      | tgagetgaga | cegeaceact | geactedage | cggggcgacg | 1020       |
| agtgaaaccg tctcaaaaca                      | acaacaacaa | Caacaaaatt | tatattanaa | ggtggcaggt | 1140       |
| gcctttaatc acagctactg                      | gggaggetga | ggcaggagaa | atatatasas | gagtgagget | 1200       |
| gaggttgcag tgagccaaga ccgtctcaaa aaaaaaaaa |            |            |            |            | 1260       |
| agagaacatc tctacaaggt                      |            |            |            |            | 1320       |
| ttgtcaaacc atgctgtcta                      | tacttagacc | tttaggagta | ctaggaggag | aggagggtca | 1380       |
| aagtgtattc tgcttggtcc                      |            |            |            |            | 1440       |
| agctgtggtg cggtctgctt                      |            |            |            |            | 1500       |
| ggtgcacagc acatattgcc                      |            |            |            |            | 1560       |
| aatcccttc ccctccact                        | acttectett | atcttcccta | actgcaagga | atggaggac  | 1620       |
| ttgagcatag tttgggaaag                      |            |            |            |            | 1680       |
| tetgttacte cetteceagg                      |            |            |            |            | 1740       |
| tectectect tteetttagg                      |            |            |            |            | 1800       |
| cctataccct ttctcttcct                      |            |            |            |            | 1860       |
| aaggacagcc agcttattca                      |            |            |            |            | 1920       |
| gacactcagg ttgaagaaag                      |            |            |            |            | 1980       |
| agacaggaca ggaccctgaa                      |            |            |            |            | 2040       |
| gtggggaaca acctgccctc                      |            |            |            |            | 2100       |
| acttttattt atgttttaag                      |            |            |            |            | 2160       |
| ggtcaggagt gtgggcctgg                      |            |            |            |            | 2220       |
| tgccccttca ctgaagacct                      |            |            |            |            | 2280       |
| caggaagaca gagcatcatg                      |            |            |            |            | 2340       |
| gatcaccaca ccaggggaat                      |            |            |            |            | 2400       |

gatcaccaca ccaggggaat agtgtccaag tcatgctcca gctcctttcc cctcttaggg

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|            | caaccaccaa |            |            |            |            | 6120  |
|------------|------------|------------|------------|------------|------------|-------|
|            | ggtttgtgaa |            |            |            |            | 6180  |
| ccttccaaag | gcactgccgt | ttcagattct | gtaatattta | ttcattcacc | aaatagtgtg | 6240  |
|            | ccaaactcta |            |            |            |            | 6300  |
|            | atctgaaggg |            |            |            |            | 6360  |
|            | caatacctgg |            |            |            |            | 6420  |
|            | agtgctcagt |            |            |            |            | 6480  |
| atttacgttt | tgtgatgtag | agttaccctt | ggtactgctt | gtctctctcc | caattctgag | 6540  |
|            | agggcagagc |            |            |            |            | 6600  |
|            | cttccttccc |            |            |            |            | 6660  |
|            | cccttgtgaa |            |            |            |            | 6720  |
|            | tggctgtgtg |            |            |            |            | 6780  |
|            | tagaccctaa |            |            |            |            | 6840  |
|            | tggctaccag |            |            |            |            | 6900  |
|            | taacgtgtat |            |            |            |            | 6960  |
|            | gccagggatg |            |            |            |            | 7020  |
| atgacatggc | tgacagcctc | cctatgttcc | ctcctgaagg | gactagctac | ccatttacaa | 7080  |
|            | tggcaaaatg |            |            |            |            | 7140  |
|            | gaataaactt |            |            |            |            | -7200 |
|            | gaaatatgcc |            |            |            |            | 7260  |
|            | ctgcagacag |            |            |            |            | 7320  |
| cctgtgtttt | cctcctct   | tcaggtaaaa | acaggagaat | aaaactattg | gctgatagac | 7380  |
| tggcttccca | gttttcttcc | acttgacttt | cctgctgtag | cctggcttct | tttaaagatg | 7440  |
|            | gtgatagccc |            |            |            |            | 7500  |
|            | ttcttaggat |            |            |            |            | 7560  |
| agacagaaaa | aaacctctca | ctctccccta | ccctccaaaa | gacagtaaca | acacatctgc | 7620  |
|            | gaagaatctc |            |            |            |            | 7680  |
| acactgggcc | tgctgcctta | gtgagtggag | tactgtgctc | tgggggctga | ccttgaatga | 7740  |
|            | tctgaaggag |            |            |            |            | 7800  |
|            | catagttcag |            |            |            |            | 7860  |
|            | gggaggacag |            |            |            |            | 7920  |
|            | tccatccctg |            |            |            |            | 7980  |
|            | gatatgaaat |            |            |            |            | 8040  |
|            | caccttcaca |            |            |            |            | 8100  |
|            | tgccagatga |            |            |            |            | 8160  |
|            | agtcagttgt |            |            |            |            | 8220  |
| tttctgttac | tctacagtag | ttactgtgga | gactgtcttg | atacccaccc | tctggtgaca | 8280  |
|            | tattctattg |            |            |            |            | 8340  |
|            | ccctctcagt |            |            |            |            | 8400  |
|            | cccattacct |            |            |            |            | 8460  |
|            | atataaacat |            |            |            |            | 8520  |
|            | tgaaactcca |            |            |            |            | 8580  |
|            | gaaatactcc |            |            |            |            | 8640  |
|            | aattgtctta |            |            |            |            | 8700  |
|            | gacaagggag |            |            |            |            | 8760  |
|            | taccaagggg |            |            |            |            | 8820  |
|            | agaacttgtc |            |            |            |            | 8880  |
|            | attatttgta |            |            |            |            | 8940  |
| aataacacag | tcataaaaca | gatgatttgc | agaatagtgc | catccactag | aaatataatg | 9000  |
|            | aagccatata |            |            |            |            | 9060  |
|            | attaatttta |            |            |            |            | 9120  |
|            | tattaaaact |            |            |            |            | 9180  |
|            | tgtcaaatgt |            |            |            |            | 9240  |
|            | tggaagagaa |            |            |            |            | 9300  |
|            | aatctaagcc |            |            | ctggcagcca | aagcaaaaag | 9360  |
| agaaaccttg | ggattgcagt | tctcatcatt | g          |            |            | 9391  |
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<210> 11939 <211> 2561 <212> DNA

### <213> Homo sapiens

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| aaattcaatt ctgga | atttt tttttatttg                | ggcatttcta   | gaactttta  | catttgaaag | 120  |
| tacatgatga gtatt | agtaa cgatgactta                | . tgtataatca | gaatctttat | gacaatttag | 180  |
| ttttacaagg tcaga | agaga tgagtttgct                | aaacccagct   | gtgatacctc | agttggaaag | 240  |
| ggaattcaaa ggtat | gcttt gtagaacaga                | aaagtatagt   | tttttttca  | tgaactttaa | 300  |
| tcattttctg ttttt | cctct atgtgagtca                | gctacaaaag   | tggtctaatt | tttacaacag | 360  |
| tagaacttcc tcctt | ttcta ctgtaatctt                | cccactgact   | ttactgcaca | ggtatgaaat | 420  |
| actagtgtat tggat | cttca gtaacct <mark>tt</mark> t | tatttcctag   | atgattgaaa | tataggtatt | 480  |
| tactccattt aaacc | aggtg ataagatgat                | gtaaatactc   | agggagggta | ttaacttgtt | 540  |
| acttttgctc gtttg | gggtg taaagtgcca                | tgactgaata   | atcttcaatt | catgattcta | 600  |
| gagtaagttt aattt | ggaaa aaggggctto                | acacatggtg   | gtggttgaac | attgattctt | 660  |
| ttatacttaa aaaga | tgaaa atgttttgtg                | gactgataca   | ttttatctta | ctgaatatga | 720  |
| attgtttatg tatct | ctact gtcaaatago                | ctttttgaaa   | ctcaggaaag | acaaaggttc | 780  |
| aattacacca ctttt | gtcaa taagcaaaco                | aggtatttt    | tttttctcct | gttgtctgga | 840  |
| tatggcaata gattt | tttaa attgctgtga                | gaacccatat   | atgaaaagag | aggagttgaa | 900  |
| ttgtgtgtgc ctttt | atgtc ttgagattta                | . tatgtggaaa | agacgacatc | tacttcaaac | 960  |
| tgtatttttt tcgtt | ttttt ttttttgg                  | ggaagggggg   | agaacggggt | cttgctctgt | 1020 |
| cgcccaggct ggagt |                                 |              |            |            | 1080 |
| caagggattc tgcct |                                 |              |            |            | 1140 |
| ggctaatttt tttgt | atttt tagtagagac                | ggggtttagt   | agagacggat | cactcctgac | 1200 |
| cacgtgatcc gccca | cctcg gcctcccaaa                | gtgctgggat   | tacaggcgtg | agccaccacc | 1260 |
| cccggcctgt atttt | cagag aggagagctt                | ggtgtttttg   | tggtgccaag | tggtaagata | 1320 |
| atgtctcttt gaggc | ttcct atggactgco                | tttattttag   | taaactcaag | acaccagtta | 1380 |
| acctcaacag agttt | tggcc ttattagaat                | ttgttgtgca   | tcttattgaa | agccaggttt | 1440 |
| acatcacctc acccc | attat tctttttagt                | taaataaatt   | taccatgcca | agtaaccaga | 1500 |
| atggagcaaa ttggt | tgatc tttaaggcag                | taggtttgac   | tagctagcta | tcattattgt | 1560 |
| cacatctaat gctag | gcacc agaaaccatt                | tgagccagga   | gtgtgaatga | ataattccag | 1620 |
| agacacttta gacat | ttttt aatgttttat                | atgaacattt   | tacatttgtg | tgattgcctt | 1680 |
| agatattaaa tttto |                                 |              |            |            | 1740 |
| tgttccaaag aaaag | gaattt gttttaatgg               | tttcaaaata   | actgcacctg | aatttgttta | 1800 |
| tgtgccttaa gttct | ctagt gctatttcaa                | ctttttttc    | aatctaaatg | aagcttacct | 1860 |
| tagataaggt tcata | itttgt ttcctataga               | gtaaataaac   | ttccccttct | taaattgtgt | 1920 |
| aataagcacc aacgt | gtggt tgcttggcag                | aatgagaatg   | ttaagggaga | ttgttggatg | 1980 |
| tttggagttt catta | itattt tttgttttta               | ttttttgata   | cctaggtgct | ttttaaaata | 2040 |
| ttcagacaaa tatct | atctt acattgatta                | aacccgtgta   | aattcatttg | cagtatctac | 2100 |
| atcgaatgtc aaaaa | agtat acttatttt                 | gttccatact   | tatgtacaat | tttttccctc | 2160 |
| ttcaggcttt ttcat | ttacc tttttgaaaa                | agcacttact   | ctccccttcc | ctatcacccc | 2220 |
| tcccccaagg tttct | ttatt taaattttta                | ttgagagttg   | ttggagctct | aagacaatac | 2280 |
| aaatttagag ttgaa | icaaaa gtataatctg               | ctttacaact   | agtatagacc | taaggtcatt | 2340 |
| tgctttcaat tagag |                                 |              |            | _          | 2400 |
| tcttagttaa gttgt |                                 |              |            |            | 2460 |
| gcatagttta atttt | ttaaa agttgtatct                | aataaaatgt   | cttttaacca | ttattacttg | 2520 |
| actatatggt tgtat | taaat tttgtttacg                | aaaaatttgt   | t          |            | 2561 |

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<210> 11940
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<213> Homo sapiens

# <400> 11940

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| aaattcaatt | ctggaatttt | tttttatttg | ggcatttcta | gaactttta  | catttgaaag | 120 |
| tacatgatga | gtattagtaa | cgatgactta | tgtataatca | gaatctttat | gacaatttag | 180 |
| ttttacaagg | tcagaagaga | tgagtttgct | aaacccagct | gtgatacctc | agttggaaag | 240 |
| ggaattcaaa | ggtatgcttt | gtagaacaga | aaagtatagt | tttttttca  | tgaactttaa | 300 |
| tcattttctg | tttttcctct | atgtgagtca | gctacaaaag | tggtctaatt | tttacaacag | 360 |
| tagaacttcc | tccttttcta | ctgtaatctt | cccactgact | ttactgcaca | ggtatgaaat | 420 |
|            |            |            |            |            |            |     |

<sup>&</sup>lt;211> 2561

<sup>&</sup>lt;212> DNA

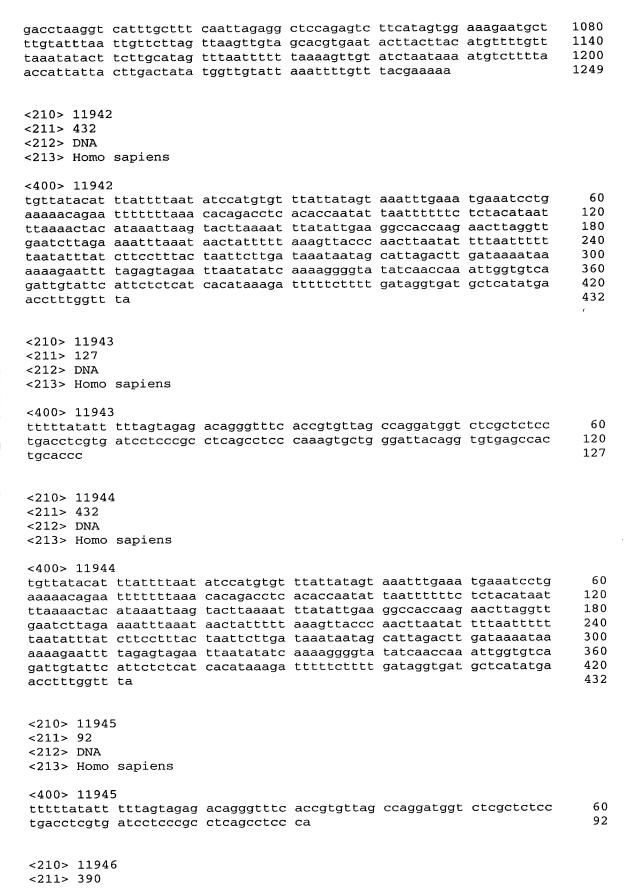
| actagtgtat | tggatcttca | gtaacctttt | tatttcctag | atgattgaaa | tataggtatt | 480  |
|------------|------------|------------|------------|------------|------------|------|
| tactccattt | aaaccaggtg | ataagatgat | gtaaatactc | agggagggta | ttaacttgtt | 540  |
|            | gtttggggtg |            |            |            |            | 600  |
|            | aatttggaaa |            |            |            |            | 660  |
|            | aaagatgaaa |            |            |            |            | 720  |
|            | tatctctact |            |            |            |            | 780  |
|            | cttttgtcaa |            |            |            |            | 840  |
|            | gattttttaa |            |            |            |            | 900  |
|            | cttttatgtc |            |            |            |            | 960  |
|            | tcgtttttt  |            |            |            |            | 1020 |
|            | ggagtgcagt |            |            |            |            | 1080 |
| caagggattc | tgcctcagcc | tcccgagtag | ctgagaccac | aggtgcgtgc | caccacaccc | 1140 |
|            | tttgtatttt |            |            |            |            | 1200 |
| cacgtgatcc | gcccacctcg | gcctcccaaa | gtgctgggat | tacaggcgtg | agccaccacc | 1260 |
| cccggcctgt | attttcagag | aggagagctt | ggtgtttttg | tggtgccaag | tggtaagata | 1320 |
| atgtctcttt | gaggcttcct | atggactgcc | tttattttag | taaactcaag | acaccagtta | 1380 |
| acctcaacag | agttttggcc | ttattagaat | ttgttgtgca | tcttattgaa | agccaggttt | 1440 |
| acatcacctc | accccattat | tctttttagt | taaataaatt | taccatgcca | agtaaccaga | 1500 |
| atggagcaaa | ttggttgatc | tttaaggcag | taggtttgac | tagctagcta | tcattattgt | 1560 |
| cacatctaat | gctaggcacc | agaaaccatt | tgagccagga | gtgtgaatga | ataattccag | 1620 |
| agacacttta | gacattttt  | aatgttttat | atgaacattt | tacatttgtg | tgattgcctt | 1680 |
| agatattaaa | ttttcctagt | gctgataaaa | acagcaacat | tcataactta | ttttatatat | 1740 |
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<213> Homo sapiens

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| atgaataatt         | ccagagacac | tttagacatt | ttttaatgtt | ttatatgaac | attttacatt | 360  |
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| cttattttat         | atattgttcc | aaagaaaaga | atttgtttta | atggtttcaa | aataactgca | 480  |
| cctgaatttg         | tttatgtgcc | ttaagttctc | tagtgctatt | tcaacttttt | tttcaatcta | 540  |
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| caatttttc          | cctcttcagg | ctttttcatt | tacctttttg | aaaaagcact | tactctcccc | 900  |
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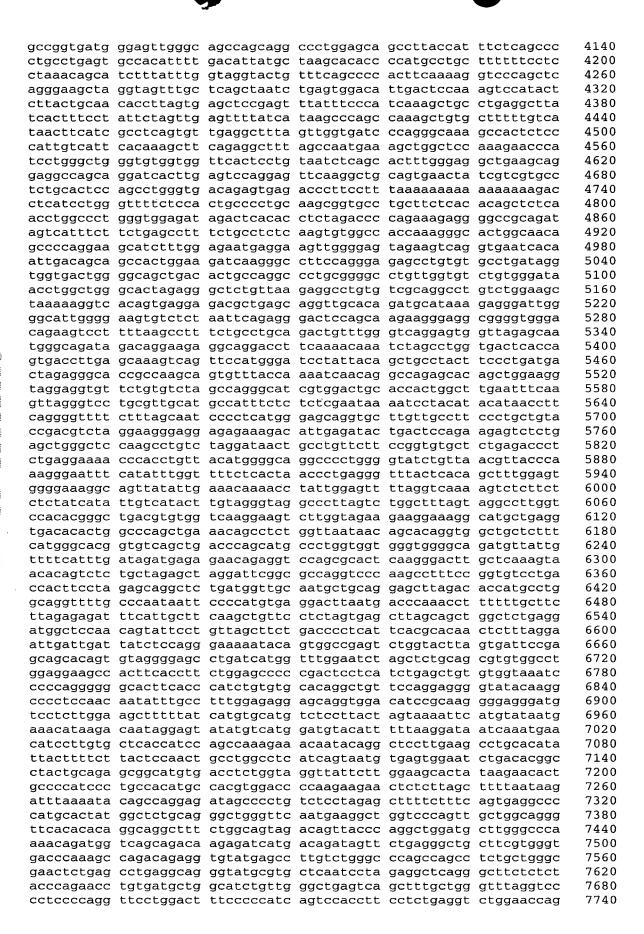


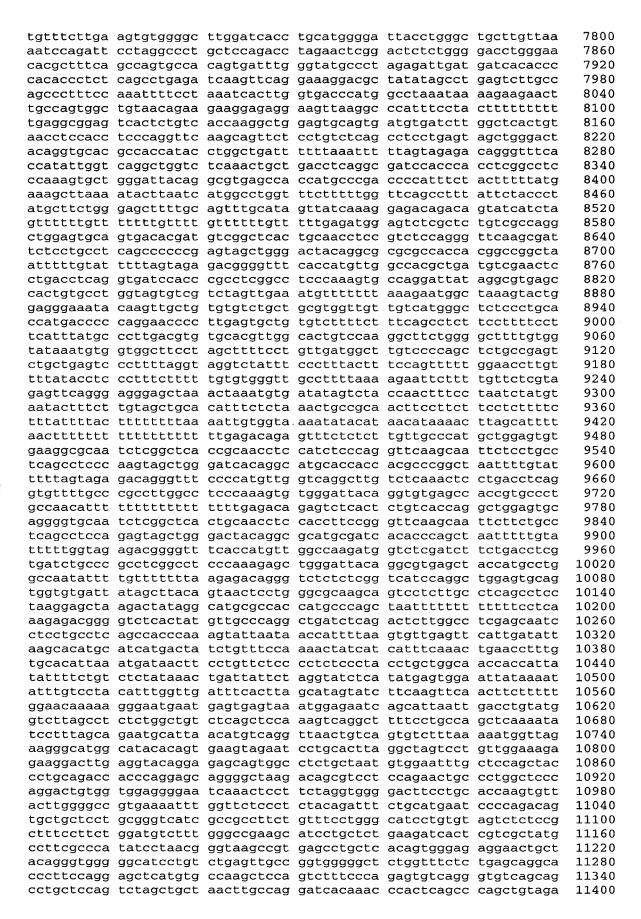
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| <210> 11951                                      |            |            |            |            |            |
|--|------------|------------|------------|------------|------------|
| <211> 155  |            |            |            |            |            |
| <212> DNA<br><213> Homo sapiens                  |            |            |            |            |            |
| vara nomo saprens                                |            |            |            |            |            |
| <400> 11951                                      |            |            |            |            |            |
| tgaggtcagg agttcaagac                            | cagcctggcc | aacatggcaa | aaccccgtct | gtattaaaaa | 60         |
| tacaaaaatt agccaggcat g                          | ggtggcgggt | gcctgtaatc | ccagctactt | gggaggctga | 120        |
| ggcaggagaa ttgcttgaac                            | ccggggggtg | ggggt      |            |            | 155        |
|  |            |            |            |            |            |
| <210> 11952                                      |            |            |            |            |            |
| <211> 759  |            |            |            |            |            |
| <212> DNA  |            |            |            |            |            |
| <213> Homo sapiens                               |            |            |            |            |            |
|  |            |            |            |            |            |
| <400> 11952                                      |            |            |            |            |            |
| gttaaatatg catgtatgca o                          |            |            |            |            | 60         |
| gtctgtagtt aacgttgagt d                          |            |            |            |            | 120        |
| acttttccca cccataaaaa taatgggaaggc cattgtcagc c  |            |            |            |            | 180<br>240 |
| atgettgetg atcetgtgtg t                          |            |            |            |            | 300        |
| gtgactgtca gttctttaaa t                          | ttcacttcaa | gcagaaaaaa | cccaggaccc | cagaacagta | 360        |
| acatcacatc cctgtttata t                          |            |            |            |            | 420        |
| ctttaccttt tttctattaa t                          | taaagacctt | ttaagtaaaa | tctctgtagt | gcaagttggc | 480        |
| atgagcagac ttggtaactt g                          | gtctttaaag | gagaggttta | aattggaact | tttaaaaact | 540        |
| agaaaacaac agattgataa a                          |            |            |            |            | 600        |
| ttcccaggga taataactct d                          |            |            |            |            | 660        |
| tacagtttta tatattaagc                            |            |            | tgtaatatgg | gataaaataa | 720        |
| catactgttc agtgcatgaa a                          | aatgacagag | aaactaaat  |            |            | 759        |
|  |            |            |            |            |            |
| <210> 11953                                      |            |            |            |            |            |
| <211> 394  |            |            |            |            |            |
| <212> DNA  |            |            |            |            |            |
| <213> Homo sapiens                               |            |            |            |            |            |
| <400> 11953                                      |            |            |            |            |            |
| gaggacacag gtttcctcta (                          | artaccasa  | aataaataat | ascagasaat | asaaasaat  | 60         |
| gtggatattc gctctctgaa a                          |            |            | · ·        |            | 120        |
| tgatcaactg tctggctcta a                          |            |            |            | _          | 180        |
| gttctgcgga gttttgcctt g                          |            |            |            |            | 240        |
| agctgggctg tgagttgtgt g                          |            |            |            |            | 300        |
| agccaaggat ggtgtgaaga g                          | ggctgtgctc | tttccacctg | catactgtct | gctgcctgag | 360        |
| gtctgatgca ccatgtgtgt g                          | gcctgtgcat | gtgc       |            |            | 394        |
|  |            |            |            |            |            |
| <210> 11954                                      |            |            |            |            |            |
| <211> 25806                                      |            |            |            |            |            |
| <212> DNA  |            |            |            |            |            |
| <213> Homo sapiens                               |            |            |            |            |            |
|  |            |            |            |            |            |
| <400> 11954                                      |            |            |            |            |            |
| agaggaggag gaagccggaa g                          |            |            |            |            | 60         |
| ggcctgggaa cgctcggccc c                          | ragecagecg | agaagcccgt | gactgggctg | agcagcacca | 120        |
| tcccagccct ggggcctgct gccctgcgcacag gtcgcacccc a |            |            |            |            | 180<br>240 |
| cccagcccgg tcctccgccc c                          | ctcagcatca | tetagetaaa | accetracte | cagatettta | 300        |
| ctctagcagt agccgatccc                            | gatecetee  | gcccccact  | cgagtctqcc | cagaccccat | 360        |
| ctggccctg gccctcttcg g                           | gttgtcgtcc | cgcagtccca | ttccggagtc | tcctgtctcc | 420        |

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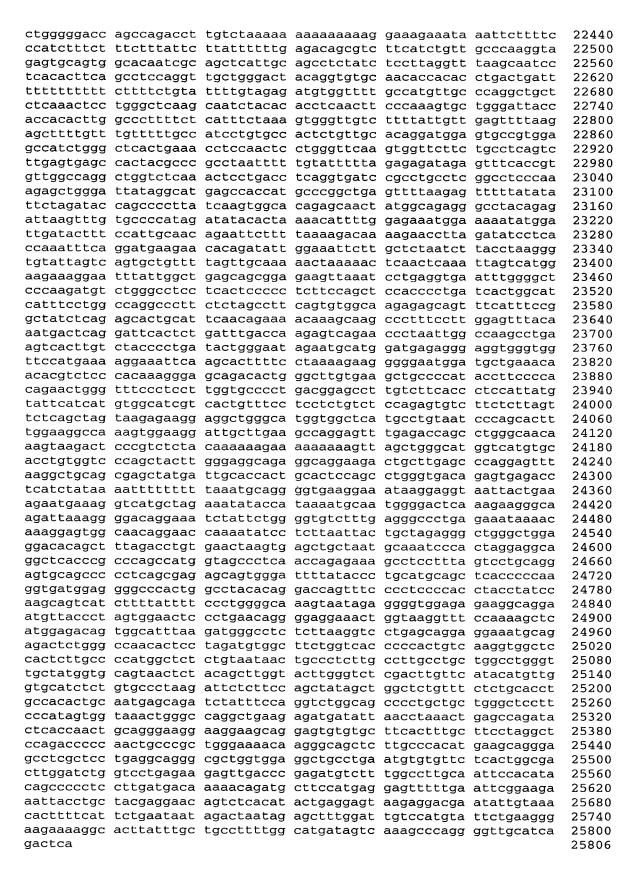




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| ttcattattg  | attggatgtc | ttaaatgcaa | agacttacac | agaaactggg | aagggaggac | 300 |

<sup>&</sup>lt;211> 5947

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

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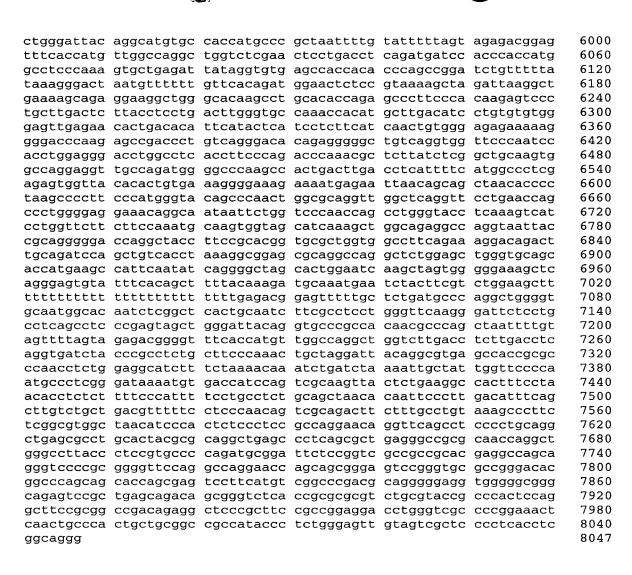
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| tcagcctccc aagtagctag                          |            |            |            |            | 180          |
| atttttagta gagacggggt                          |            |            |            |            | 240          |
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| ttttaaagca ataataata                           | tgaacatttt                   | trctgtactg   | tacactatta             | taagctcttt   | 1380                  |
| atataactca tgtaaccaca                          | a atagetetae                 | taaaatataa   | tttaaaatat             | agtaagaaaa   | 1440                  |
| gttctgtagg tagatggtg                           | a tgatggtgat                 | gattacacaa   | caacacgact             | gtacttaatg   | 1500                  |
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| ttttgggagg ccaaggagg                           | g cogatcacct                 | gaggtcagga   | gttcaagaca             | agcccggcca   | 1620                  |
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| tctgtaatcc cagctactt                           | g ggaggctgag                 | gcaggagaat   | tgcttgaatc             | tggggggcag   | 1740                  |
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| agactccatc tcaaaaaca                           | a aaacaaaaa                  | aggttaaaat   | ggtaaatttt             | gtgttacata   | 1860                  |
| tattttccac aatttatat                           | a tatatatata                 | tataaacata   | tatgtgtata             | tgtaatagta   | 1920                  |
| aactttgaaa acattatgc                           |                              |              |                        |              | 1980                  |
| attccatctg tgtgaaatg                           | t ccagaatagg                 | g caaacccata | ı gagatagaaa           | gtagattggt   | 2040                  |
| ggttttctag tacaaggag                           | a ctttggggga                 | a aatgaggagt | gactgttaat             | gggtacggtt   | 2100                  |
| tactttttt tttttaat                             |                              |              |                        |              | 2160                  |
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| acceledige eleageete                           | c ccagtagets                 | , ggactacagg | , cycycyccac           |              | 2020                  |

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| <210> 11982<br><211> 134<br><212> DNA<br><213> Homo sapiens                      |                            |                          |                          |                          |                  |
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| <210> 11983<br><211> 26427<br><212> DNA<br><213> Homo sapiens                    |                            |                          |                          |                          |                  |
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| catgacetea tetaacegta                          |            |            |            |            | 360            |
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| gggccggtgg | gcccacacat | caccagctgc | tccgttctac | catttcttca | gccctcttgg | 1140 |
| ctgtgcctgc | agctctgccc | ctccctctc  | tgcacctacc | acccagagag | ggcttgttga | 1200 |
| gctcagagat | cccacctagg | ccaatccact | gggttctgcg | gcagcgatgg | cctgcctgat | 1260 |
| cttccacctg | ctctcccagg | gccaaagcca | gacctgctga | gcccctccct | ccagccggct | 1320 |
| ggtctgagca | gtcacagccc | ggctttgggc | tccgatggca | gcagacggca | ggtaggggtc | 1380 |
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| ttactggcct | aggttgtcag | agaagttgat | gctctcactc | atctttcctc | caatctttcc | 1500 |
| cctatgcctg | gttgtggtat | taagttacat | gcagacaaca | ggggccagaa | gatgaacaat | 1560 |
| ggcccatccc | actctaggca | tggctcctct | ccacaggaaa | actccactcc | agtgctcagc | 1620 |
| ttgcaccctg | gcacaggcca | gcagttgctg | gaagtcagac | acctgcagat | caagaccaca | 1680 |
| gcatcaagac | cctgtgacct | ctcaaaggac | cggtggaaag | gacacgggaa | gtctgggcta | 1740 |
| agagacagca | aatacacatg | aacagaaaga | agaggtcaaa | gaaaaggctg | acggc      | 1795 |
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<213> Homo sapiens

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| tggtcccagc | tacttagggg | gctgacgtgg | caggatcacc | tgagtctgga | ggcagaggtt | 2220 |
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| tgctaaagga | gatgggaaaa | aggattcttt | ttttggctga | aatatttaac | actaaattaa | 2520 |
| agccaatttt | aacagcactt | tggttgatga | gtgaaattaa | cagactggcc | aaaaataaac | 2580 |
| gaacggtctg | tactatgtga | aaaagaggca | gctttggcca | tgctgggcca | atgtgagttt | 2640 |
|            |            | tgtgaatcgg |            |            |            | 2700 |
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| gggccagatc | acaggcccgg | aggctggacc | actgggctgg | cactcttgcc | gagctgctcc | 2820 |
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| aaatggggat | gagaatagct | cctacctcca | aggtgaatgg | agtgagttcg | gacaggtgac | 2940 |
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| gatacccttg | gctgtaccag | gggagaactt | ggttgccatt | gccaggtgtt | ctcccaccac | 3060 |
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| ggcacatcct | ggctttcagg | tgaaaggtgc | gtgtgtgttt | gagggtttag | cgctggccaa | 3180 |
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| tctactggac | agacgtcagc | ctgaaggtag | cgtgggccag | aacgtgcaca | caggcagcct | 3660 |
| ttatgggaaa | accttgcctc | tgttcctgcc | tcaaaggctt | cagacacttt | tcttaaagca | 3720 |
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| tcaaacaaac | aaacaaacaa | aaaacaaaca | aacaaagcgt | catttatcca | gcacccctgg | 120  |
| ggaaccatgc | tacctggtgt | tttatggtac | ctggcaaggt | gcaggtgaag | ttgctgctct | 180  |
| tgggcattga | acccgtcttg | tttggggcag | ctcaggcccc | aggcagggtc | cgggttggct | 240  |
| ctcgttggtg | tggccctggc | ccatccagac | ctatatttct | gccgtcctgc | aggtgatcaa | 300  |
| tgttgatggg | acgaagaggc | ggaccctcct | ggaggacaag | ctcccgcaca | ttttcgggtt | 360  |
| cacgctgctg | ggggacttca | tctactggac | tgactggcag | cgccgcagca | tcgagcgggt | 420  |
| gcacaaggtc | aaggccagcc | gggacgtcat | cattgaccag | ctgcccgacc | tgatggggct | 480  |
| caaagctgtg | aatgtggcca | aggtcgtcgg | tgagtccggg | gggtcccaag | ccatggctca | 540  |
| gccatgcaga | cttgcatgag | gaggaagtga | cgggtccatg | cctgggcata | agtgttgagc | 600  |
| tcaggtgccc | cgacctgggg | aagggcagga | caggaaaggt | gacagtatct | ggccaaggac | 660  |
| agatgggaag | ggaccaaggg | agctgattag | ggagtggtta | tggactagga | atgtcggtaa | 720  |
| caatggttag | aaagtgacta | acatttgttg | agcacctgct | gtgtgcccgg | ccctggccgg | 780  |
| gagccttcgt | gcccacagtg | accccgtctg | caaatgtagt | tccttgccct | actcgcactg | 840  |
| gggagcagga | cgcagagccg | tgcaactcac | aggtgccaag | ctcaggactc | cctcctgggt | 900  |
| ctgcctgggc | tgggctgtgc | ttgttgcccc | tgtggcccac | gcatgtgcac | cttccacctg | 960  |
| aaagccagga | tcttcaggac | gctccccgag | gaggtcgttg | tctggcacaa | tgatttgtct | 1020 |
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| gtcagaggca | ctcagtcaat | ctttgctgat | gaaggatgag | aggacagagg | acgtgatgct | 1200 |
| tgctgctgca | ttgcctgcag | tcctgggtga | gatgcccggg | ttgactctgc | tgcccgtcgg | 1260 |
| gtggatgtga | tgtcagatcc | ccggctttaa | aatacgaggg | agctgggaat | tgagggagca | 1320 |
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| tgccatccat | gaatttagtt | ttcccagcct | cctttaaaaa | cgcgttcatg | ctggggccgg | 1500 |
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| atgagccact gcgcccggct                                       | gacgtt     |            |            |            | 28766        |
|---|------------|------------|------------|------------|--------------|
| <210> 11998<br><211> 792<br><212> DNA<br><213> Homo sapiens |            |            |            |            |              |
|   |            |            |            |            |              |
| <400> 11998   |            |            |            |            |              |
| aaaatagtga aactgttcac                                       |            |            |            |            | 60           |
| actataaaaa ccagtaaact attaaaaaaat gagtagtatt                |            |            |            |            | 120<br>180   |
| aattttattt ataataggat                                       |            | •          |            | _          | 240          |
| tactctgaga attctaaaac                                       |            | _          | -          | _          | 300          |
| tcccatgtct ttgaatcaga                                       |            |            |            |            | 360          |
| tatagatcag ccttacagat                                       |            |            |            |            | 420          |
| cacaaatgga gtagctgatc                                       |            |            |            |            | 480          |
| aaacagtctt gaactaggcc<br>ggctgaggca ggaagatcac              |            |            |            |            | 540<br>600   |
| agacccctgt ctctataaaa                                       |            |            |            |            | 660          |
| tcccagctac tcaagaggct                                       |            |            |            |            | 720          |
| agtaacctgt gattgtgcca                                       | ctgcactcca | gcctgggtga | cagcaagact | ctgtctcaaa | 780          |
| aaaaaaaac aa  |            |            |            |            | 792          |
| <210> 11999   |            |            |            |            |              |
| <211> 1218  |            |            |            |            |              |
| <212> DNA   |            |            |            |            |              |
| <213> Homo sapiens  |            |            |            |            |              |
| <400> 11999   |            |            |            |            |              |
| agcacaccaa gtatagcaac                                       | atacaaggat | tgtataccat | gaccaaatgg | atttatgcaa | 60           |
| gtttggttca acatttgaaa                                       |            |            |            |            | 120          |
| aaaaaccaca tgatcgtttc                                       |            |            |            |            | 180          |
| tcatggtaaa aacaaaact  |            |            |            |            | 240<br>300   |
| aaacccatgg ctgacatacc<br>aacaagacga gttcctgatc              |            |            |            |            | 360          |
| atcgtattgg aggttctggc                                       |            |            | _          | _          | 420          |
| attagaaaag tagtgaaact                                       |            |            | _          |            | 480          |
| gaatctacta taaaaaccag                                       |            |            |            |            | 540          |
| gctaatatta aaaaatgagt                                       |            |            |            |            | 600          |
| gaaaacaatt ttatttataa<br>aacttatact ctgagaattc              |            |            |            |            | 660<br>720   |
| aagacatccc atgtctttga                                       |            |            |            |            | 780          |
| ctgatctata gatcagcctt                                       |            |            |            |            | 840          |
| actttgcaca aatggagtag                                       |            |            |            |            | 900          |
| taacaaaaac agtcttgaac                                       |            |            |            |            | 960          |
| ttgggaggct gaggcaggaa<br>atagtgagac ccctgtctct              |            |            |            |            | 1020<br>1080 |
| ctatagtccc agctactcaa                                       |            |            |            |            | 1140         |
| ggctgcagta acctgtgatt                                       |            |            |            |            | 1200         |
| ctcaaaaaaa aaaaacaa   |            |            |            |            | 1218         |
|   |            |            |            |            |              |
| <210> 12000   |            |            |            |            |              |
| <211> 339<br><212> DNA                                      |            |            |            |            |              |
| <213> Homo sapiens  |            |            |            |            |              |
| 1400- 10000   |            |            |            |            |              |
| <400> 12000 acggtctctc tctgtcacct                           | addctacadt | acaataatat | datcacadet | cattocacco | 60           |
| acggeotete tetgecacce                                       | aggetacagt | geageggege | garcacaget | carrycayco | 00           |

| ctgacctccc aggctcagcc<br>cacaccacca cgcccagcta<br>tgtgttgccc aagctggtct<br>caaagtgccg gaattacagg<br>ctagcggata ttattcagca  | attttttat<br>caaactcctg<br>cctgagccac   | tttttgtaat<br>cactcaaatg<br>tgtaccaagc  | aaaaagagac<br>atcttcccgt   | aggatcttgc<br>cttggtcttc  | 120<br>180<br>240<br>300<br>339   |
|--|---|---|--|---|---|
| <210> 12001<br><211> 339<br><212> DNA<br><213> Homo sapiens  |   | o.  |  |   |   |
| <pre>&lt;400&gt; 12001 acggtctctc tctgtcacct ctgacctccc aggctcagcc cacaccacca cgcccagcta tgtgttgccc aagctggtct caaagtgccg gaattacagg ctagcggata ttattcagca</pre>   | atcettetae<br>atttttttat<br>caaacteetg<br>cetgageeae  | ctcagcctcc<br>tttttgtaat<br>cactcaaatg<br>tgtaccaagc  | cgagtagctg<br>aaaaagagac<br>atcttcccgt   | gaaacaggtg<br>aggatettge<br>ettggtette  | 60<br>120<br>180<br>240<br>300<br>339   |
| <210> 12002<br><211> 844<br><212> DNA<br><213> Homo sapiens  |   |   |  |   |   |
| <pre>&lt;400&gt; 12002 ggttggtctc agatggcctc acaggcatga gccaccacca ttatcagagc aaaataggga cagttataaa catgtatgca acagattgga agagagcagt taataatgga taaaactaag tataccaaca aggactaaca cgttcttctc aagtgcacat aaaagttcag caaatttaaa ggggtgagtt agaaataaat gtatacttct aaataaccag ttgaggccgg gggtcgctta aggtcaggag tgcagtgagc cgagatcaca aaaa</pre> | cccagccaaa tatttgataa tccaaaaaca agttcaaaaa cagaagatca gagaactgta gaacattctc aggattaaaa aacaaacttg tgggtcaaac tcacacctgt gtccaggcag | aaagctggag<br>taacagggtg<br>gccccaaaa<br>caacagctgg<br>acagggaaac<br>gaaccctcca<br>caggacagac<br>ctgtacaaaa<br>ggaaattaat<br>aggagatcac<br>agtcccagcc<br>gaaaattgct | agactttaaa aaaccatcaa aatacatgaa agaccttaac agaagactta cccaactact catatgctag gtatgtcctc aaatacatgc aaacaaaatt ctttgggagg tgaaccccg | acaaaaactg gaagatacaa gcaaaaacta atactacttt aataacactg acagaatgca gctgttaaaa aaatcccagt aaattaagca aggaagtgtc ccgaggaggc aggcagaggt | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>540<br>600<br>720<br>780<br>840<br>844 |
| <210> 12003<br><211> 3129<br><212> DNA<br><213> Homo sapiens   |   |   |  |   |   |
| <400> 12003 ggctgggcgc ggtggctcac tcacgaggtc aggagatcga aaaataacaa aaaaattagc aggctgaggc aggagaatgg caccactgca ctccagcctg aagataaata gaaggagccc tacccacctc cagacttgtt ataatttggc atttttggtt gtaatgttaa atataaaagg tgtataggtg ataggccagt atgcagagga catgttgaat  | gaccatcctg<br>cgggcgtggt<br>tgtgaacccg<br>ggctacagag<br>aggtaccttg<br>ttatatgaca<br>atatgcaact<br>taagttgcta<br>aatacagaaa          | gctaacacgg<br>ggcgggcgcc<br>ggaggcgaag<br>caagactccg<br>tgacactgga<br>gaaaaataaa<br>gaatcgaata<br>agtaaagcca<br>ggtggatgag  | tgtaaacctc<br>tgtagtccca<br>cttgcagtga<br>tctcaaaaaa<br>gtgtcatatt<br>tccttagtgt<br>ctaattgata<br>gaagaatata<br>tggcagtata         | gtctctatta<br>gctactccgg<br>gcccagatcg<br>aaaaaaaaa<br>agccctggac<br>ttaagccagt<br>ataccatgtt<br>aactcaaacg<br>aatagtaggg           | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>540<br>600<br>660                      |

| •          |              |            |              |            |              |      |
|------------|--------------|------------|--------------|------------|--------------|------|
| atgtggattg | agatcttcca   | gtttttcatg | ttaaatttcc   | ccagtgttct | gcaaacaaaa   | 720  |
| cattttccca | gctgtatcta   | cattgcagcc | tatcagtttg   | tgacttttga | tttgtactat   | 780  |
| ggtctaatat | ttagaaaaat   | ggaataaaag | ggagaaggat   | ggaagggaga | aaagaaggaa   | 840  |
|            | _            | aggctgaggt |              |            |              | 900  |
|            |              | aaccccatct |              |            |              | 960  |
|            |              | ccagctactc |              |            |              | 1020 |
|            |              | tcagccaaga |              |            |              | 1080 |
|            |              | aaaaaaaaa  |              |            |              | 1140 |
|            |              | gtgaccttgc | _            |            | -            | 1200 |
|            | _            | tttttcttt  |              |            |              | 1260 |
|            | •            | ggcacaatct | _            |            |              | 1320 |
| _          |              | gcccccgaa  |              |            | -            | 1380 |
|            | -            | ttagtacata |              |            |              | 1440 |
| •          | •            | tccacccacc |              |            |              | 1500 |
| _          | _            | ccttgattat |              |            |              | 1560 |
|            |              | tggcccaatg | -            |            | _            | 1620 |
|            | -            | tctagtttta |              |            | -            | 1680 |
| _          |              | ggcattgcca | _            | _          | _            | 1740 |
|            | •            | aaactgttca |              | _          | _            | 1800 |
|            |              | agacatccat |              |            | <del>-</del> | 1860 |
|            | ~ -          | acaagtctcc |              | • •        | -            | 1920 |
| _          |              | gactgttttc | -            |            | =            | 1980 |
| •          |              | caccccaccc |              |            |              | 2040 |
|            | •            | ttatgatcct |              |            |              | 2100 |
| _          | -            | atcagttaga |              |            |              | 2160 |
|            |              | ctccctaggt | <del>-</del> |            | -            | 2220 |
| 0 0 00     | _            | cacaacaaac |              |            |              | 2280 |
|            | _            | aagctacatt |              |            |              | 2340 |
|            |              | agtctggcat | _            |            |              | 2400 |
|            |              | tcaaatcagg | -            |            |              | 2460 |
|            |              | tgtaaattcc |              |            |              | 2520 |
|            |              | catcagaatc |              |            |              | 2580 |
|            |              | caggtagctt |              |            |              | 2640 |
|            |              | agggcagagt |              |            |              | 2700 |
|            |              | gctgacttgg |              |            |              | 2760 |
|            | <del>-</del> | gaatctcatg |              |            | _            | 2820 |
|            | • •          | gaggagtggt |              | _          |              | 2880 |
| -          |              | aggcaagcaa |              |            |              | 2940 |
| 000 000    |              | tcacattgca |              | _          |              | 3000 |
|            |              | tttatatttc | -            | =          |              | 3060 |
|            |              | aagatatgcg |              |            | =            | 3120 |
| aaaaaaaaa  |              | 5 5-5      | 5 5          |            |              | 3129 |
|            |              |            |              |            |              |      |
|            |              |            |              |            |              |      |

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<210> 12004
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## <400> 12004

| gagcccaggt | accttgtgac | actggagtgt | catattagcc | ctggactacc | cacctccaga | 60  |
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| cttgttttat | atgacagaaa | aataaatcct | tagtgtttaa | gccagtataa | tttggcattt | 120 |
| ttggttatat | gcaactgaat | cgaatactaa | ttgataatac | catgttgtaa | tgttaaatat | 180 |
| aaaaggtaag | ttgctaagta | aagccagaag | aatataaact | caaacgtgta | taggtgatag | 240 |
| gccagtaata | cagaaaggtg | gatgagtggc | agtataaata | gtagggatgc | agaggacatg | 300 |
| ttgaattgga | aagcccctgc | aacattaata | atattaccat | gtggccatgt | ggattgagat | 360 |
| cttccagttt | ttcatgttaa | atttccccag | tgttctgcaa | acaaaacatt | ttcccagctg | 420 |
| tatctacatt | gcagcctatc | agtttgtgac | ttttgatttg | tactatggtc | taatatttag | 480 |
| aaaaatggaa | taaaagggag | aaggatggaa | gggagaaaag | aaggaagggt | ggaccagcac | 540 |
| ttcgggaggc | tgaggtggct | ggattatgag | gtcaggagtt | tgagaccagc | ctggacaatg | 600 |
| tggtgaaacc | ccatctccac | taaaaataca | aaaattagct | agacataata | gcatatgcct | 660 |

<sup>&</sup>lt;211> 2815

<sup>&</sup>lt;212> DNA

<sup>&</sup>lt;213> Homo sapiens

| gtaatcccag ctactcggga                       | gactgaggca | ggagaatcgc | ttgaactcgg | gaagcggagg | 720  |
|---|------------|------------|------------|------------|------|
| ttgcagtcag ccaagattgt                       |            |            | -          |            | 780  |
| ctcaaaaaa aaaaaaaaa                         |            |            |            |            | 840  |
| aaacatgtga ccttgccact                       |            |            |            |            | 900  |
| tttttttt tcttttcc                           |            |            |            |            | 960  |
| cgcaatggca caatcttggc                       |            |            |            |            | 1020 |
| gcctcagccc cccgaacagc                       |            |            |            |            | 1080 |
| gtattttag tacatacggg                        |            |            |            |            | 1140 |
| tcatgatcca cccaccttgg                       |            |            |            |            | 1200 |
| ccgccacctt gattattgtt                       |            |            |            |            | 1260 |
|   |            |            |            |            | 1320 |
| ataatgtggc ccaatgtata actatttcta gttttacacc |            |            |            |            | 1380 |
| _ ;   | -          |            | -          |            | 1440 |
| gtctcaggca ttgccattct                       |            |            |            |            | 1500 |
| tgtgtaaaac tgttcagttt                       |            |            |            |            | 1560 |
| tttgtgagac atccattttc                       |            |            |            |            | 1620 |
| tttggaacaa gtctcctaat                       | -          |            |            |            | 1680 |
| ttatttgact gttttcaatt                       | _          |            |            |            | 1740 |
| ctgctccacc ccacccctca                       |            |            |            |            | 1800 |
| agagaattat gatccttaaa                       |            |            |            |            | 1860 |
| cagtgtatca gttagacatt                       |            |            |            |            |      |
| ttatagctcc ctaggtctag                       |            |            |            |            | 1920 |
| agatctcaca acaaactagt                       |            |            |            |            | 1980 |
| aggtaaaagc tacattgaaa                       |            |            |            |            | 2040 |
| ctgtaaagtc tggcataata                       |            |            |            |            | 2100 |
| ccaaattcaa atcaggctaa                       |            |            |            |            | 2160 |
| agtaagtgta aattccaggg                       | _          |            |            |            | 2220 |
| aaatgtcatc agaatctgcc                       |            |            |            |            | 2280 |
| cattctcagg tagcttgact                       | _          |            |            |            | 2340 |
| agccacaggg cagagtacac                       |            |            |            |            | 2400 |
| ttactggctg acttggatca                       |            |            |            |            | 2460 |
| aagcttgaat ctcatgccac                       |            |            |            |            | 2520 |
| gaaggggagg agtggttaca                       |            |            |            |            | 2580 |
| aatgtaaggc aagcaaaaac                       |            |            |            |            | 2640 |
| ttacactcac attgcactgt                       |            |            |            |            | 2700 |
| tagggattta tatttcatta                       |            |            |            |            | 2760 |
| aaaacaaaga tatgcgatga                       | agaaaactgg | gctttgcaaa | aaaaaaaaa  | aaaaa      | 2815 |
|   |            |            |            |            |      |
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| <211> 247                                   |            |            |            |            |      |
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| <213> Homo sapiens                          |            |            |            |            |      |
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| gtggatcacg aggtcaggag                       | atcgagacca | tcctggctaa | cacggtgtaa | acctcgtctc | 60   |
| tattaaaaat aacaaaaaaa                       | ttagccgggc | gtggtggcgg | gcgcctgtag | tcccagctac | 120  |
| tccggaggct gaggcaggag                       |            |            |            |            | 180  |
| gatcgcacca ctgcactcca                       | gcctgggcta | cagagcaaga | ctccgtctca | aaaaaaaaa  | 240  |
| aaaaaa                                      |            |            |            |            | 247  |
|   |            |            |            |            |      |
|   |            |            |            |            |      |
| <210> 12006                                 |            |            |            |            |      |
| <211> 2976                                  |            |            |            |            |      |
| <212> DNA                                   |            |            |            |            |      |
| <213> Homo sapiens                          |            |            |            |            |      |
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| <400> 12006                                 |            |            |            |            |      |
| aaaccccagg cgcagaggcc                       | aggagcgagg | gcagcgagga | tcagaggcca | ggccttcccg | 60   |
| gctgccggcg ctcctcggag                       |            |            |            |            | 120  |
| aggaaggaag teeegetgee                       | accttatctc | tgctcctctg | cctcctccct | gttcccagag | 180  |
| ctttttctct agagaagatt                       | ttgaaggcgg | cttttgtaag | tatcgtgctc | tgcttttact | 240  |
|   |            |            |            |            |      |

| ttaaaaagaa | agaagacaaa | ctttccttcc | tatccctatc | cttttcgtat | tatttattca | 300  |
|------------|------------|------------|------------|------------|------------|------|
| _          |            | cattatattc |            | _          |            | 360  |
|            |            | tcccttgtaa |            |            |            | 420  |
|            |            | aaatagtacc |            |            |            | 480  |
|            |            | gctgttgata |            |            |            | 540  |
|            |            | acacacacac |            |            |            | 600  |
|            |            | ttagacaagg |            |            |            | 660  |
|            |            | tttcaatcag |            |            |            | 720  |
|            |            | cagtgcaggc |            |            |            | 780  |
|            |            | tggacatgtg |            |            |            | 840  |
|            |            | aacatggaca |            |            |            | 900  |
|            |            | gtcttaaaga |            |            |            | 960  |
|            |            | gaaactgctt |            |            |            | 1020 |
|            |            | acttctgaat |            |            |            | 1080 |
|            |            | attttgggca |            |            |            | 1140 |
|            |            | agatacagag |            |            |            | 1200 |
|            |            | ggtaataatg |            |            |            | 1260 |
|            |            | tgtaaggctt |            |            |            | 1320 |
|            |            | atgtatatgt |            |            |            | 1380 |
|            |            | ctagtgctca |            |            |            | 1440 |
|            |            | atttcacatc |            |            |            | 1500 |
|            |            | tattataaaa |            |            |            | 1560 |
|            |            | ctgtggctcc |            |            |            | 1620 |
|            |            | tgcttttacc |            |            |            | 1680 |
|            |            | ttgattacaa |            |            |            | 1740 |
|            |            | atagaaggaa |            |            |            | 1800 |
|            |            | ttaactgagc |            |            |            | 1860 |
| tccggtgact | gaggcaagag | gatcgcttga | gcctagaagg | tggagactag | agtgagttgc | 1920 |
|            |            | gcctgggtga |            |            |            | 1980 |
|            |            | tattgtagtg |            |            |            | 2040 |
|            |            | cgcagattcc |            |            |            | 2100 |
|            |            | atggaggaaa |            |            |            | 2160 |
| tgggctactg | ggtagttgta | atagaatacc | atagaacaag | aggaggtact | ggtttatgaa | 2220 |
|            |            | taatatcagg |            |            |            | 2280 |
| cgctgagtaa | aaataaaaag | caatttttt  | aagcataaaa | ttatcatctg | gatgtggtgg | 2340 |
| catgtgtctg | tagtcccagc | tactcaggag | gctgaagcag | gaggatctca | tgagcccaga | 2400 |
| ggttcaaggc | tatggtgcac | tataatcaag | cttgtgaata | gatactgcac | tccagcctga | 2460 |
| gcaacatagt | gagaccctgg | ctctttaaaa | aaaaaatgct | agatttttgt | ctttgaaatt | 2520 |
| ttgaggagat | acataaagac | tgagctctcc | ctactatgtt | ctaatgcccc | ccaagaaatg | 2580 |
| gtcactatct | ggactcaatg | aaatcagagc | tttaatcttg | tgtccctgct | gccaaatgaa | 2640 |
| tttttttctc | attaactttt | caataggaag | cccatgtcta | gggcagtctt | gcctgtagct | 2700 |
| atgtgtatcc | tcaaagagag | taatttttac | ttcttcagag | acttcagaaa | tgagcagaga | 2760 |
| ctaaagatct | atgagctagt | agaatactta | ttcataaaaa | gcacatatgc | atgaagaagt | 2820 |
|            |            | cctttcctta |            |            |            | 2880 |
|            |            | caaaggaagt |            | ctggtcatta | tttagtctac | 2940 |
| aataagttca | tccttcttca | gtgtgaccag | taaatt     |            |            | 2976 |
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<210> 12007

<211> 265

<212> DNA

<213> Homo sapiens

## <400> 12007

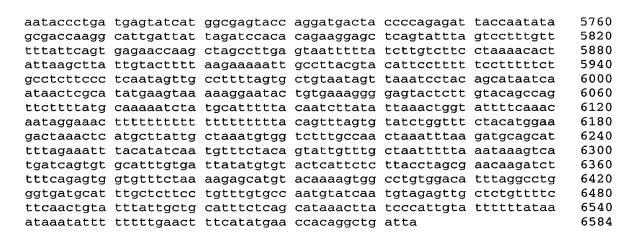
| cctctaatgt | gcagcagcaa | aggaacaaca | gatgccaaca | ttcttgtttg | cctcatgaac | 60  |
|------------|------------|------------|------------|------------|------------|-----|
| ttaagcccta | aagtaagctg | acttgagtaa | agtttagagg | ctccccttca | agttttagaa | 120 |
| aagctttctt | gtttaactta | tgcaaattta | cacaccctca | tgaacctatt | gcatatatcc | 180 |
| gacaaccgtc | catattttag | taccatgtgg | tggctctcac | ctatgcccat | atagctggcg | 240 |
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<211> 138
<212> DNA
<213> Homo sapiens
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                                                                      120
gcctggctaa tttttgtatt tttagtagag acggggtttc accatgttgg tcaggctgat
                                                                      138
ctcaaactcc tgatctca
<210> 12009
<211> 480
<212> DNA
<213> Homo sapiens
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                                                                       60
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gagatggctg cacctcctgc agagttaacc ttggctgagc aagaggctcc agggctgggc
                                                                      120
                                                                      180
accagatcaa cctcataccc ctaagtgagg gcatcattaa tgtctgtggc ctgcaagtcg
                                                                      240
aggcatgcag gcagtcactg ggtcaacatc tgagcactcc tggaccagaa ccagtgcatt
                                                                      300
ccagaattct tgaattgagg atactaagac agggattcat aatgccctct gcttgatgtg
                                                                      360
ctggtggttg ccaggaggct tggcttcaga ttcagaggaa gataccaaaa aactgatcgt
                                                                      420
ttccttgaat tggcttttct atttacttcg tctgtgtctc tcatattgaa tatcctaaga
gagatgctgg aatattttgg cgttcctcta gaagaagttt taccgattgg agaaaataaa
                                                                      480
<210> 12010
<211> 811
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tcatttgata tgttttataa tgtttgtccc tagagttgtc ctttattgaa tacaagggtc
                                                                      120
ttttctcaat tgctataatg tctgttataa tccagatgta gatatttgaa caatgtgaat
                                                                      180
acacatcttt atgtgtatta tcttaagtgc tgtttaatat taaagtgtat ttaaaatgac
                                                                      240
cagatttcaa attagtgcag ttttgagata tttgttactt aggtcttacc aggtatgcac
                                                                      300
ctgtgttgta atttatgttg gtatgcttta gatctggtgt ttccttggtt ttttgctgcc
                                                                      360
gtatctcaag tggctagatt tgatatttcc ttatccctga tctgacattt ttatgtgacc
                                                                      420
                                                                      480
aagtttctgt agcattttgt tgaacaccag gtactgttgc cactgtgcct aaccctacca
tctccactcc atgctatctc ttactttaca tgtaaatgac agttatttta gtcacttttc
                                                                      540
acaatgtgaa atgtttctag gacacttgtc catgaacagg agcaaattga aatttgaaat
                                                                      600
gatcacatct gattgacttg taattagagg atgtttgggt gtggttgaat gtattgtatc
                                                                      660
tgtacttatt gaaaaacctg aaagacctgg actcactatg ttttgttctg caacctggtt
                                                                      720
                                                                      780
agtcagctac gtggaagtga ccagagagtt gaaagccaat ttatttatcc ctccaagatg
                                                                      811
aataaaacat aaattactct tctagcaaaa a
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tgatcattcc ttgacaatta gagaacaaat tgagcatgga ccatttatcc cctatttata
                                                                      120
tgcaaaattg ttctaagtaa gtattgatga tgttctctat agaaatttca atcactcact
                                                                      180
                                                                      240
teettgtetg tteteetaca caatattate agetetgetg cacattteet cattggtgat
ccctgcagga aaataggaga taaggtcaat tctagttgac ttttatgaga atatgattat
                                                                      300
                                                                      360
agcaggcttt ctttagttat tggaatatgt gataagttag gacaaacaat tatgcagcaa
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| taaatttatc ttggttgtt<br>ctaagctcac acaactacc<br>atcttatatg gcaagtgca<br>actacaaaaa acaaaaa  | t gcttatttac  | aaacttgcaa   | ttcaggaata   | aatgattggg   | 420<br>480<br>540<br>557                                   |
|---|---|--|--|--|--|
| <210> 12012<br><211> 113<br><212> DNA<br><213> Homo sapiens   |   |  |  |  |  |
| <400> 12012<br>cacgcctgta atcccagca<br>cgagaccatc ctggcctat   |   |  |  |  | 60<br>113  |
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| <pre>&lt;400&gt; 12013 acaggagaaa aacatatac atttgtgaag acccaaaga agcagtaaat tgcagaaat attggaggag aatggctgg gcctcagctt ctggtcctt cctttcacat gggaatgtc ttcttgtacc tgctttttg cacccaggct ggagtgcag caagtgattc tcctgcctc</pre> | t gcagtttgta g tgatgaggtg g aaggaagggc g cccataggaa a tctcctgctt t ttttgtttt t ggcgcaatct | ttgaccactt<br>gggggtcggg<br>cagtatagca<br>tcatgcctcc<br>ttcagaaaca<br>gtttttgttt<br>cggctcactg | atataaggaa<br>ggcttgggcc<br>ggtggtacag<br>cacctggcca<br>gaaggaaggt<br>ttgagagagt<br>caacctccgc | ttagacaaag<br>agggcaggtg<br>gtttccctca<br>agggaggaca<br>cagagtgatc<br>ctctctctgt | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480<br>529 |
| <210> 12014<br><211> 343<br><212> DNA<br><213> Homo sapiens   |   |  |  |  |  |
| <400> 12014 ctcgttcata agtaaagtt tgagagaaat gacacaaaa gaaaccagat attacataa ttttagatta ctggcatta ttgccttctg tgacactgg gaattccact tacaggtgo   | a ataattttga<br>t taacataaag<br>c atgctgctga<br>a agcttctgat                              | attttctcat<br>cggtattgga<br>ctctcgcatc<br>ttaccttcag   | gtcattgtta<br>aacaaatgtg<br>ttcatgaaat<br>tctctctgat   | ctaaagctga<br>gagacaagtc<br>ctgttcccct   | 60<br>120<br>180<br>240<br>300<br>343                      |
| <210> 12015<br><211> 926<br><212> DNA<br><213> Homo sapiens   |   |  |  |  |  |
| <pre>&lt;400&gt; 12015  tgctttttga aataactta cccgttcaca ttaatcagg attacatata tgttgatca ccctgattaa acaaaaact agaaaacatt gacaattat catattcata acagggaga aaggtaaaat cccaggaac tcaagaagaa cacaaaagg</pre>                     | c atccttaggg t gtgtatttt g aaggtataaa a ttttcatgtt t agagttattc c aacagacaag              | aagattctga<br>ctagtaagca<br>acctgcccaa<br>attctatctc<br>ttcttaaaag<br>gcatcttccc               | tggcctgaat<br>ctagtacctt<br>atggaaacct<br>tgtttctaat<br>agttgatcaa<br>tgtttcctat               | ggacatttca acttgccctc atttttcat gcatttttct aactggtatg gtggaggtcg                 | 60<br>120<br>180<br>240<br>300<br>360<br>420<br>480        |

| ctagtgatag gattcacagc | ttgagctcaa | ataaggtaag | aacatactct | atcatottaa | 540  |
|-----------------------|------------|------------|------------|------------|------|
| tgtaatattg gaagctccaa |            |            |            |            | 600  |
| atatcatatc tattgcagag |            |            |            |            | 660  |
| acatcagtaa atataagtca |            |            |            |            | 720  |
| aattttgctc atttcatttt |            |            |            |            | 780  |
| catgaagtct cgtatgatat |            |            |            |            | 840  |
|                       | _          |            | -          | _          | 900  |
| tttttccta aagcttcatt  |            | taaattttat | glalalaala | taatetttae |      |
| atataaataa atataatcat | atattc     |            |            |            | 926  |
| •                     |            |            |            |            |      |
| 010 10015             |            |            |            |            |      |
| <210> 12016           |            |            |            |            |      |
| <211> 163             |            |            |            |            |      |
| <212> DNA             |            |            |            |            | •    |
| <213> Homo sapiens    |            |            |            |            |      |
|                       |            |            |            |            |      |
| <400> 12016           |            |            |            |            |      |
| tctcagctca ctgcaacctc |            |            |            |            | 60   |
| gattagctgg gactacaggt | gcccgccacc | acacccggct | aatttttgta | tttttagtag | 120  |
| agatggggtt tcactatgtt | ggccaggctg | gtctcgaact | cct        |            | 163  |
|                       |            |            |            |            |      |
|                       |            |            |            |            |      |
| <210> 12017           |            |            |            |            |      |
| <211> 6584            |            |            |            |            |      |
| <212> DNA             |            |            |            |            |      |
| <213> Homo sapiens    |            |            |            |            |      |
|                       |            |            |            |            |      |
| <400> 12017           |            |            |            |            |      |
| cagattgctt ccaagtatga | tcatcaggca | gaagaagatc | ttcgcaattg | gatagaagag | 60   |
| gtgacaggca tgagcattgg | ccccaacttc | cagctgggct | taaaggatgg | catcatcctc | 120  |
| tgcgagtgag ttacagccct | ccagaatctg | tttctgctct | tccagttctt | tccacagcct | 180  |
| tctctctcac tctccttctc | agcccagggt | gtcagacctt | gatattctac | agatatcttt | 240  |
| aatgctttcc cttactgatg | ctaaagggag | caacttgata | tttcaatcct | tgtttttgtg | 300  |
| tgccagtaaa taagatgtct | ctcatatttt | tcttttcaga | cttataaaca | agctacagcc | 360  |
| aggctcagtg aagaaggtca | acgagtcctc | actgaactgg | cctcaggtaa | cagccaaacc | 420  |
| aaccacctct ggttctagtt | ggttgcattt | tatgtagtga | aaacttgatt | tcaggtttgg | 480  |
| ttttttggtt ttgtgttttt |            |            |            |            | 540  |
| tgtagcagaa atttgtgcat |            |            |            |            | 600  |
| tatttaacta gttctgtaat | tattatgttt | agcttagaag | ttttcctata | tttagtctgt | 660  |
| gtacattcag aaaggacttg | acacagetta | cacagagaaa | tgcaacccag | accttaagga | 720  |
| taagggaaaa aacaaggcat |            |            |            |            | 780  |
| cataacctta gttcatgagt | gtgtatgagg | aaqqaaaatq | ggatacttac | tggtcttgaa | 840  |
| catgtgtttg gagatatgag |            |            |            |            | 900  |
| aaataacaca taatgaatta |            | -          |            |            | 960  |
| attccaggcc tggatagctc | _          | ~ ~        |            | -          | 1020 |
| ccataaaaac tgaaaacacg |            |            |            |            | 1080 |
| tgagagacac actctcttct | _          |            |            | -          | 1140 |
| tttggttgaa tccttgtcaa |            |            |            |            | 1200 |
| ttggaattct tagaaattat | -          |            |            |            | 1260 |
| tctttatagt tggagaatat |            |            |            |            | 1320 |
| ccacatgaca tattcgaago |            |            |            |            | 1380 |
| actactctgg tggctctagc |            |            |            |            | 1440 |
| ttcccaccac attggtgatg |            |            |            |            | 1500 |
| gggcggggcc tgtctcttct |            |            |            |            | 1560 |
| catcgtacta gatagcttac |            |            |            |            | 1620 |
| acagcettaa ataettttta |            |            |            |            | 1680 |
| tttgttgttc cttctgtgaa |            |            |            |            | 1740 |
| aggetaaaac aaaaggatto |            |            |            |            | 1800 |
| aaacaagacg ttttgatgaa |            |            |            |            | 1860 |
| taagtaatgt ggtgttgctt |            |            |            |            | 1920 |
| aaatattaag ceteteetaa |            |            |            |            | 1920 |
| tatacaattt atatctattt |            | _          |            |            | 2040 |
| catacaatti atattiatti | acadagecea | caagacagcg | acaaccccc  | agaggaaacc | 2040 |

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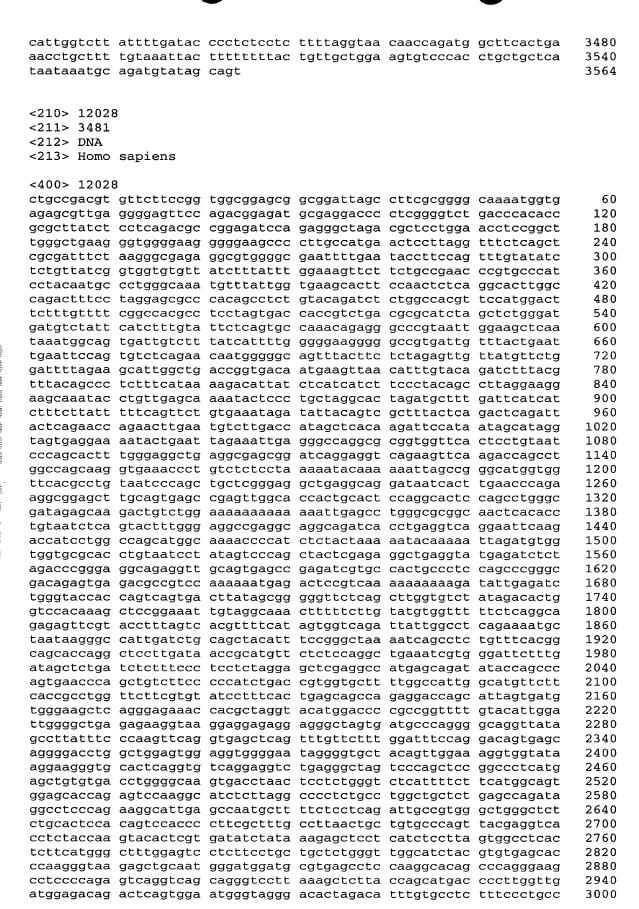
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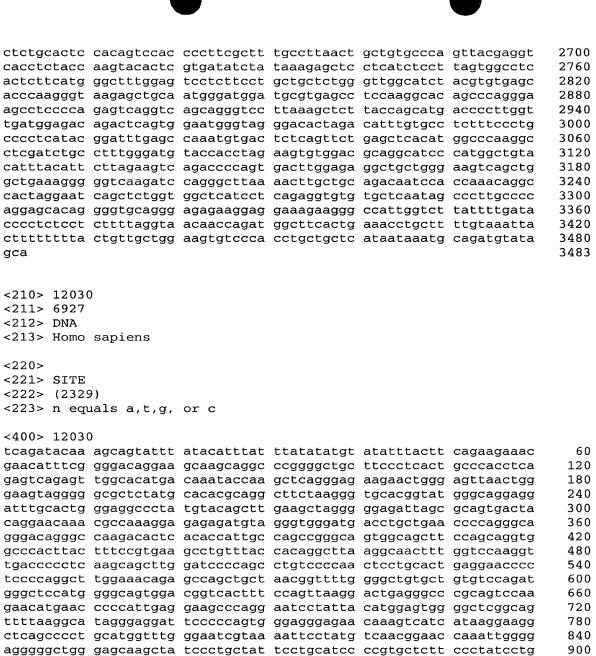
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|            | ctgtggctgg               |            |            |            |            | 2460           |
|            | agtgggaagg               |            |            |            |            | 2520           |
|            | ttgacactgt               |            |            |            |            | 2580           |
|            | cgtcgcagac               |            |            |            |            | 2640           |
|            | tgccacccgg               |            |            |            |            | 2700           |
|            | agaggtgccc               |            |            |            |            | 2760           |
|            | cagcatctct<br>aaagcagaga |            |            |            |            | 2820<br>2880   |
| acgaaggaaa | adageagaga               | accegaaga  | gacaggaagg | ageacycect | goodgag    | 2000           |

| aaggagcaat | ggcagctact | ccatgcagac | cgtgcccggg | actggcaggt | ccacagccac | 2940 |
|------------|------------|------------|------------|------------|------------|------|
| ctccacctgg | cccctgcctc | cttcccagtc | ctgttgtgct | gggttccctc | acccactatg | 3000 |
| ctctgggcac | atcaaagtat | ttcattagcc | ccatcctcag | tacaatccag | tgacacagtg | 3060 |
| ctgctactag | ccccatcttc | tggatgagga | aactgagcca | cttcctaaaa | atcacacagt | 3120 |
| gtggcaaaat | cacacagctg | ggattcaaac | ccaggtctgt | ctggctgtct | ccctcacagg | 3180 |
|            | gcctggctgc |            |            |            |            | 3240 |
|            | tttcaggccc |            |            |            |            | 3300 |
|            | cctgtctctt |            |            |            |            | 3360 |
|            | tgcaggtgct |            |            |            |            | 3420 |
|            | acctgtgtct |            |            |            |            | 3480 |
|            | cagatggggc |            |            |            |            | 3540 |
|            | cactacttcc |            |            |            |            | 3600 |
|            | aactgggggt |            |            |            |            | 3660 |
|            | gctcaccatc |            |            |            |            | 3720 |
|            | tgctgtacat |            |            |            |            | 3780 |
|            | tctgcagaca |            |            |            |            | 3840 |
|            | gtttccatca |            |            |            |            | 3900 |
|            | cagcacggca |            |            |            |            | 3960 |
|            | cccctccctg |            |            |            |            | 4020 |
|            | ctataactcc |            |            |            |            | 4080 |
|            | cagctcgggc |            |            |            |            | 4140 |
|            | tgtggagact |            |            |            |            | 4200 |
|            | acagcaccac |            |            |            |            | 4260 |
|            | ggttctagag |            |            |            |            | 4320 |
|            | tccacccagc |            |            |            |            | 4380 |
|            | accatcccat |            |            |            |            | 4440 |
|            | aggcaatgaa |            |            |            |            | 4500 |
|            | ctcagactcg |            |            |            |            | 4560 |
|            | cacttcccca |            |            |            |            | 4620 |
|            | cactactgac |            |            |            |            | 4680 |
|            | ttagcctgag |            |            |            |            | 4740 |
|            | gtactggagc |            |            |            |            | 4800 |
|            | cttatggggg |            |            |            |            | 4860 |
|            | catgtcacct |            |            |            |            | 4920 |
| gcaggcatcc | cctggagcac | agtactggga | ggtgatggac | atcgaattct | ccagcacctg | 4980 |
| gatggaggtc | agggagggca | ctggctctgc | aaggagagag | gctgttgggg | caggagtaag | 5040 |
|            | aggacacaaa |            |            |            |            | 5100 |
| tcactcacac | cttagtatga | ataagttcca | ggttatttt  | ttccagacct | ccacaatggc | 5160 |
| cagcatcaca | ctacaccctt | tcctcagcag | ccctaggact | acccagttcc | catgagcctg | 5220 |
| acgtctgcct | cctcaaaaga | actggaacac | ccagaagtag | ggatgggtct | tcacatcccc | 5280 |
| tgccaggtgt | gcaggagccc | gctcgaggcc | tgtgttcctg | actgcgggca | tctctcccag | 5340 |
| ttctgggttc | agaaacatca | gttacactgg | tagcttgaaa | tcagcagtgt | tgacagcatc | 5400 |
| acacaaatca | ggctcccctc | tgccccgagg | ccgatgatta | caccgctacc | agcacgctgc | 5460 |
|            | ctccctgaac |            |            |            |            | 5520 |
|            | aagtcagatg |            |            |            |            | 5580 |
| cttgctgctg | cctgactatc | cacccaggaa | gggggaagct | ggggccgctg | aacatttgct | 5640 |
|            | cgttttcagc |            |            |            |            | 5700 |
|            | ctgtgtggtc |            |            |            |            | 5760 |
|            | ttctgggcaa |            |            |            |            | 5820 |
|            | agttttccct |            |            |            |            | 5880 |
|            | acctgcatgt |            |            |            |            | 5940 |
|            | ggggacaggg |            |            |            |            | 6000 |
|            | gtggcaggca |            |            |            |            | 6060 |
|            | cacattgaat |            |            |            |            | 6120 |
|            | aaaatccatc |            |            |            |            | 6180 |
|            | ccagcctccc |            |            |            |            | 6240 |
|            | aacccagttt |            |            |            |            | 6300 |
|            | gtttgggaaa |            |            |            |            | 6360 |
|            | aggagccagg |            |            |            |            | 6420 |
|            | aggtcacttc |            |            |            |            | 6480 |
| acaacaattc | ctttcttgca | ggagtgctgt | gaggactaaa | tgggatgatc | tatgtaaggc | 6540 |